

BID SOLICITATION NOTICE

TO RECEIVE A BID PACKAGE YOU MUST COMPLETE THIS FORM AND FAX IT TO THE NUMBER BELOW. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS / SERVICES YOU WILL RECEIVE.

THE NEW JERSEY TURNPIKE AUTHORITY

PURCHASING DIVISION

P.O. Box 5042
Woodbridge, New Jersey 07095-5042
or
New Jersey Turnpike Administrative Offices
581 Main Street
Woodbridge, New Jersey 07095-5042

Tel. - 732-750-5300

Fax - 732-750-5399

INVITATION TO BID

TITLE: **7- YARD DUMP TRUCKS**

BID NO: **R-72890**

DUE DATE: **7-27-10**

TIME: **11:00 AM**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME TO THE ABOVE ADDRESS

BIDDER INFORMATION (TO BE COMPLETED BY THE BIDDER)

Please Print

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO.

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO.

FAX NO.

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TELEPHONE NO.

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO.

FAX NO.

____BUSINESS CORPORATION____PARTNERSHIP____INDIVIDUAL

____OTHER (SPECIFY):_____

PURSUANT TO N.J.S.A. 27:23-6.1 AND N.J.A.C. 19:9-2.1 et seq. BID PROPOSALS WHICH FAIL TO CONFORM WITH THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

- 2

BUSINESS REGISTRATION ACT

Proof of valid business registration with the State of New Jersey Department of Treasury, Division of Revenue shall be submitted by the successful Bidder in the form of a valid Business Registration Certificate in compliance with N.J.S.A. 52:33-44. No contract shall be awarded without proof of business registration with the Division of Revenue. In addition, the successful Bidder is required to receive from any subcontractor it uses, for goods and services under this contract, proof of valid business registration with the Department of Revenue. No subcontract shall be entered into by any contractor with the Authority unless the subcontractor first provides proof of valid business registration. Any questions with regard to obtaining a Business Registration Certificate can be directed to the Division of Revenue at (609) 292-1730. Alternatively, further information is available on the internet at:

<http://www.state.nj.us/treasury/revenue/gettingregistered.htm#busentity>

The Authority requests that all Bidders include a copy of the Bidder's and any subcontractor's Business Registration Certificate with the bid submission.

Code of Ethical Standards

The Proposers are advised that the Authority has adopted the New Jersey Uniform Code of Ethics, a copy of which can be viewed by going to the following web site:

<http://nj.gov/ethics/docs/ethics/uniformcode.pdf> By submitting a Bid, the Proposer agrees to be subject to the intent and purpose of said Code and to the requirements of the Division on Ethical Standards of the State of New Jersey.

SMALL / MINORITY / WOMAN OWNED BUSINESS ENTERPRISE

If your firm is registered with the State of New Jersey as a Small Business Enterprise (SBE), or Certified as a Woman Business Enterprise (WBE) or Minority Business Enterprise (MBE) you must send a copy of the Registration / Certification Form with your quotation. Please check off the gross receipt category of your business if registered as an SBE

SBE CATEGORY 1	\$0- \$500,000	_____
SBE CATEGORY 2	\$500,001 thru \$5,000,000	_____
SBE CATEGORY 3	\$5,000,001 thru \$33,500,000	_____
NOT APPLICABLE	_____	

SBE Registration # _____

Please check below if applicable

W B E _____ M B E _____

VENDOR DISCLOSURE FORM
EXECUTIVE ORDER #129

Please be advised that in accordance with Executive Order #129 (2004), the New Jersey Turnpike Authority has developed this form under the policy and procedures directed under this Order, The State contracting agencies must consider the requirements of New Jersey's contracting laws, the best interests of the State of New Jersey and its citizens, as well as applicable federal and international requirements.

The State contracting agencies shall ensure that all vendors seeking to enter into any contract in which services are procured on behalf of the State of New Jersey must disclose:

- a The location by country where services under the contract will be performed;
and
- b Any subcontracting of services under the contract and the location by country
where any subcontracted services will be performed.

I certify that all information is true and correct to the best of my knowledge.

Contractor: _____ Title: _____

THE LOCATION BY COUNTRY WHERE SERVICES UNDER THIS CONTRACT WILL
BE PERFORMED;

Contractor: _____
(Location by Country)

Name: _____

Address: _____

Title: _____

Subcontractor: _____
(Location by Country)

Name: _____

Address _____

Title: _____

**NEW JERSEY ELECTION LAW ENFORCEMENT COMMISSION REQUIREMENT FOR
DISCLOSURE OF POLITICAL CONTRIBUTIONS**

All business entities are advised of their responsibility to file an annual disclosure statement of political contributions with the New Jersey Election Law Enforcement Commission (ELEC) pursuant to N.J.S.A. 19:44A-20.27 if they receive contracts in excess of \$50,000.00 from public entities in a calendar year. Business entities are responsible for determining if filing is necessary. Additional information on this requirement is available from ELEC at 888-313-3532 or at www.ele.state.nj.us

**DISCLOSURE OF CONTRIBUTIONS TO NEW JERSEY ELECTION LAW ENFORCEMENT
COMMISSION IN ACCORDANCE WITH N.J.S.A. 19:44A-2027**

STATE OF _____ :SS

COUNTY OF _____

I, _____ of the _____ of _____ in the County of _____ and the State of _____ of full age, being duly sworn according to

law on my oath depose and say that:

I am _____, a _____ in the firm of _____
(Name) (Title, Position, etc)

_____, the Bidder submitting the Proposal for the Services herein; that I executed said Proposal with full authority to do so; and that the Bidder acknowledges our responsibility to file an annual disclosure statement of political contributions with the New Jersey Election Law Enforcement Commission (ELEC) pursuant to N.J.S.A. 19:44A-20.27 if in receipt of contracts in excess of \$50,000.00 from public entities in a calendar year. I further acknowledge that business entities are solely responsible for determining if filing is necessary and that all statements contained in said Proposal and in this affidavit are true and correct, and made with full knowledge that the New Jersey Turnpike Authority relies upon the truth of the statements contained in said Proposal and in statements contained in this affidavit in awarding the contract for the project.

Print Name: _____

Subscribed and Sworn to before me this _____ day of _____ 20____

Notary Public of _____

My Commission Expires: _____

NOTICE TO ALL PROPOSERS
SET-OFF FOR STATE TAX

Please be advised that pursuant to P.L. 1995, c. 159, effective January 1, 1996 and notwithstanding any provision of the law to the contrary, whenever any taxpayer, partnership, or S corporation under contract to provide goods or services or construction projects to the State of New Jersey or its agencies or instrumentalities, including the legislative and judicial branches of State government, is entitled to payment for those goods or services or construction projects and at the same time the taxpayer, or the partner or shareholder of that entity, is indebted for any State tax, the Director of the Division of Taxation shall seek to set-off that taxpayer's, partner's or shareholder's share of the payment due to the taxpayer, partnership, or S corporation. The amount of set-off shall not allow for the deduction of any expenses or other deductions which might be attributable to a partner or shareholder subject to set-off under this act. No payment shall be made to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects pending resolution of the indebtedness.

The Director of Division of Taxation shall give notice to the set-off to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects and provide an opportunity for a hearing with thirty (30) days of such notice under the procedures for protests established under R.S. 54:49-18. No requests for conference, protest or subsequent appeal to the Tax Court from any protest under this section shall stay the collection of the indebtedness. Interest that may be payable by the State pursuant to P.L. 1987, c. 184 (c. 5232-32 et seq.) to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects shall be stayed.

"I HAVE BEEN ADVISED OF THIS NOTICE."

COMPANY _____

SIGNATURE _____

NAME _____

TITLE _____

DATE _____

State Contractor Political Contributions Compliance Public Law 2005, Chapter 51 and Executive Order 117

In order to safeguard the integrity of State government procurement by imposing restrictions to insulate the award of State contracts from political contributions that pose the risk of improper influence, purchase of access, or the appearance thereof, Executive Order 134 ("EO 134") was signed on September 22, 2004 and became effective October 15, 2004. The Order is applicable to all State agencies, the principal departments of the executive branch, any division, board, bureau, office, commission within or created by a principal executive branch department, and any independent State authority, board, commission, instrumentality or agency. Executive Order 134 was superseded by Public Law 2005, c.51, signed into law on March 22, 2005. In September 2008, Executive Order 117 was signed and became effective November 15, 2008. It applies to the same government contracting entities subject to Executive Order 134, but extends the political contribution restrictions by expanding the definition of "business entity" to include, for example, more corporate shareholders and sole proprietors. Executive Orders 134 and 117, and Public Law 2005, c.51 contain restrictions and reporting requirements that will necessitate a thorough review of the provisions. Pursuant to the requirements of PL 2005, c.51, the terms and conditions set forth in this section are material terms of any contract resulting from this procurement.

DEFINITIONS

For the purpose of this section, the following shall be defined as follows:

a) Contribution – means a contribution reportable as a recipient under "The New Jersey Campaign Contributions and Expenditures Reporting Act." P.L. 1973, c. 83 (C.19:44A-1 et seq.), and implementing regulations set forth at N.J.A.C. 19:25-7 and N.J.A.C. 19:25-10.1 et seq. Through December 31, 2004, contributions in excess of \$400 during a reporting period were deemed "reportable" under these laws. As of January 1, 2005, that threshold was reduced to contributions in excess of \$300.

b) Business Entity – means any natural or legal person; business corporation (and any officer, person, or business entity that owns or controls 10% or more of the corporation's stock); professional services corporation (and any of its officers or shareholders); limited liability company (and its members); general partnership (and its partners); limited partnership (and its partners); in the case of a sole proprietorship: the proprietor; a business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction, including its principals, officers, or partners. The definition of a business entity also includes (i) all principals who own or control more than 10 percent of the profits or assets of a business entity ; (ii) any subsidiaries directly or indirectly controlled by the business entity; (iii) any political organization organized under section 527 of the Internal Revenue Code that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (iv) if a business entity is a natural person, that person's spouse or child, residing in the same household.

BREACH OF TERMS OF THE LEGISLATION

It shall be a breach of the terms of the contract for the Business Entity to (i)make or solicit a contribution in violation of the Legislation, (ii)knowingly conceal or misrepresent a contribution given or received; (iii)make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution; (iv)make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate of holder of the public office of Governor, or to any State or county party committee; (v)engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would make or solicit any contribution, which if made or solicited by the business entity itself, would subject that entity to the restrictions of the Legislation; (vi)fund contributions made by third parties, including consultants, attorneys, family members, and employees; (vii)engage in any exchange of contributions to circumvent the intent of the Legislation; or (viii)directly or indirectly through or by any other person or means, do any act which would subject that entity to the restrictions of the Legislation.

CERTIFICATION AND DISCLOSURE REQUIREMENTS

- a) The Authority shall not enter into a contract to procure from any Business Entity services or any material, supplies or equipment, or to acquire, sell or lease any land or building, where the value of the transaction exceeds \$17,500, if that Business Entity has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions to a candidate committee and/or election fund of any candidate for or holder of the public office of Governor, or to any State, county or municipal political party committee, or legislative leadership committee during specified time periods.
- b) Prior to the award of any contract or agreement, the intended Awardee shall submit the Certification and Disclosure form, certifying that no contributions prohibited by the Legislation have been made by the Business Entity and reporting all contributions the Business Entity made during the preceding four years to any political organization organized under 26 U.S.C.527 of the Internal Revenue Code that also meets the definition of a "continuing political committee" within the means of N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.7. Failure to submit the required forms will preclude award of a contract under this procurement, as well as future contract opportunities.
- c) Further, the Contractor is required, on a continuing basis, to report any contributions it makes during the term of the contract, and any extension(s) thereof, at the time any such contribution is made to the State Treasurer.

STATE TREASURER REVIEW

The State Treasurer or his designee shall review the Disclosures submitted pursuant to this section, as well as any other pertinent information concerning the contributions or reports thereof by the intended awardee, prior to award, or during the term of the contract, by the contractor. If the State Treasurer determines that any contribution or action by the contractor constitutes a breach of contract that poses a conflict of interest in the awarding of the contract under this solicitation, the State Treasurer shall disqualify the Business Entity from award of such contract.

ADDITIONAL DISCLOSURE REQUIREMENT OF P.L. 2005, C. 271

Contractor is advised of its responsibility to file an annual disclosure statement on political contributions with the New Jersey Election Law Enforcement Commission (ELEC), pursuant to P.L. 2005, c. 271, section 3 if the contractor receives contracts in excess of \$50,000 from a public entity in a calendar year. It is the contractor's responsibility to determine if filing is necessary. Failure to so file can result in the imposition of financial penalties by ELEC. Additional information about this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us.

ADDITIONAL DISCLOSURE REQUIREMENT OF P.L. 2005, C. 51 (EXECUTIVE ORDER NO. 117)

Governor Jon S. Corzine recently signed Executive Order No. 117, which is designed to enhance New Jersey's efforts to protect the integrity of government contractual decisions and increase the public's confidence in government. The Executive Order builds on the provisions of P.L. 2005, c. 51 ("Chapter 51"), which limits contributions to certain political candidates and committees by for-profit business entities that are, or seek to become, State government vendors.

Executive Order No. 117 extends the provisions of Chapter 51 in two ways:

1. The definition of "business entity" is revised and expanded so that contributions by the following individuals also are considered contributions attributable to the business entity:
 - Officers of a corporation, any person or business entity who owns or controls 10% or more of the corporation's stock, and professional services corporations, including any officer or shareholder, with the term "officer" being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements (N.J.A.C. 19:25-26.1), with the exception of officers of non-profit entities;
 - Partners of general partnerships, limited partnerships, and limited liability partnerships and members of limited liability companies (LLC's), with the term "partner" being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements (N.J.A.C. 19:25-26.1);
 - In the case of a sole proprietorship: the proprietor; and
 - In the case of any other form or entity organized under the laws of this State or any other state or foreign jurisdiction: the entity and any principal, officer, and partner thereof;
 - Spouses, civil union partners, and resident children of officers, partners, LLC members, persons owning or controlling 10% or more of a corporation's stock, all shareholders of a professional services corporation, and sole proprietors are included within the new definition, except for contributions by spouses, civil union partners, or resident children to a candidate for whom the contributor is eligible to vote or to a political party committee within whose jurisdiction the contributor resides.

2. Reportable contributions (those over \$300.00 in the aggregate) to legislative leadership committees, municipal political party committees, and candidate committees or election funds for Lieutenant Governor are disqualifying contributions in the same manner as reportable contributions to State and county political party committees and candidate committees or election funds for Governor have been disqualifying contributions under Chapter 51.

Executive Order No. 117 applies only to contributions made on or after November 15, 2008, and to contracts executed on or after November 15, 2008.

Updated forms and materials are currently being developed to combine the requirements of P.L. 2005 c. 51 and Executive Order 117. In the meantime, beginning November 15, 2008, the intended Awardee only will be required to submit, in addition to the currently required Chapter 51 and Chapter 271 forms, the Certification of Compliance with Executive Order No. 117 form(s).

The Chapter 51 and EO 117 forms are available on the Department of Treasury Division of Purchase and Property's website at: <http://www.state.nj.us/treasury/purchase/forms.htm#eo134> and the Chapter 271 form is also available on the Department of Treasury Division of Purchase and Property's website at: <http://www.state.nj.us/treasury/purchase/forms/CertandDisc2706.pdf>

Note: The Intended Awardee will receive the applicable forms, Chapter 51 and E.O. 117, from the Authority's Purchasing Department to be completed and returned to the Authority for submission to the State Treasurer. Upon approval by the State Treasurer, the Authority will issue a contract.

REQUEST FOR QUOTATION
THIS IS NOT AN ORDER

DATE OF REQUEST: 7-27-10

Sealed Proposals for Requisition R-72890 will be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main St., Woodbridge, New Jersey, as stated on the cover page at which time and place said proposal will be publicly opened and read. Bidders mailing Proposals should allow for their normal mail delivery time to ensure timely receipt of their Public Bids. Please be advised that using overnight / next-day delivery service does not guarantee overnight / next-day deliveries to our location. The Authority will not be responsible for any bid not being received by the prevailing date and time.

INTENTION

It is the Intention of the Authority to issue a Purchase Order for the procurement of **7-YARD DUMP TRUCKS**. Items purchased off this Agreement will be delivered as directed by the Authority. The term of the contract shall be for one year with the option to extend for two additional one-year terms at the Authority's discretion and Vendor's concurrence. Please contact Regina Parker with any questions regarding this procurement contract at 732-750-5300 X 8633.

BID SHEET INSTRUCTIONS

Prospective Bidders must examine the Bid Documents carefully before bidding and must ask the Director of Purchasing in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. Any written request for interpretation or correction shall be directed to the Director of Purchasing. Written requests can be submitted by FAX at 732-750-5399. If necessary, an interpretation or correction shall be issued by the Director of Purchasing as an Addendum and FAXED to prospective Bidders who have obtained the Bid Documents. Upon the issuing of the Addendum the content of the Addendum shall become part of the Bid Documents. **Request for interpretation or correction shall be considered only if received at least 5 business days prior to the bid opening date.**

Only written interpretations or corrections issued by the Director of Purchasing, by Addendum shall be binding.

The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of Purchasing of the existence of an ambiguity, inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the interpretation of such ambiguity or inconsistency.

All erasures, interpolations or other physical changes on the Proposal form shall be signed or initialed by the bidder. Bids containing any conditions, omissions, erasures, alterations, or items not called for in this Request for Bids, or irregularities of any kind, may be rejected by the Authority, in its sole discretion, as being incomplete. The bidders shall not attach conditions, limitations or provisos to their Proposal, except in cases where "Exceptions" are permitted.

The Authority will accept Approved Equivalent items on this bid. If a bidder is basing the proposal on items other than what is specified, and wishes the items he proposes to be considered as an "Approved Equivalent", the Bidder shall enter a price on the bid sheet then submit on the Exception Sheet in the exact format of the line item on the Request for Quotation contained herein, the item number, an item description, including manufacturers name, model number, and packaging quantities of those Items which the Bidder proposes to substitute.

Bidders must supply a price for every item listed. Bids not having a price in all listed items may be rejected. The bid will be awarded to the vendor who supplies the lowest total cost for ALL items as listed in the bid.

Bidders must quote only one price per line item. **If a bidder quotes multiple prices per line item, the bid proposal may be rejected.**

The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed,. All items are to be bid FOB Destination. All shipping, handling, and other costs should be considered in the bid price.

Award will be made to the lowest, responsible bidder for the total items bid.

REQUEST FOR QUOTATION

MATERIAL AND SERVICE DESCRIPTION

7- Yard Dump Trucks As Per Specifications

ITEM	QUAN.	UNIT OF MEAS.	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	30	Each	Cab Chassis: CC-2011 As Per Specifications		
2	30	Each	7-Cubic Yard <u>Aluminum</u> <u>Dump Body: DB-2011</u> As Per Specifications		
3	30	Each	Central Hydraulic System: CHS-2011 As Per Specifications		
4	30	Each	Tailgate Spreader: TS-2011 As Per Specifications		
5	30	Each	Rotator Lights: RL As Per Specifications		
6	30	Each	Snow Plow Lights: SPL-2011 As Per Specifications		
7	30	Each	Snow Plow Hitch: SPH-2011 As Per Specifications		
8	30	Each	Snow Plow: SP7-2011 As Per Specifications		
9	30	Each	7PTC 7-Pole Connector As Per Specifications		
10	30	Each	Sketch "NL" As Per Specifications		

GRAND TOTAL OF LINES 1 THROUGH 10 =\$ _____

CONTINUED
REQUEST FOR QUOTATION

ITEM	QUAN.	UNIT OF MEAS.	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	30	Each	Cab Chassis: CC-2011 As Per Specifications		
2	30	Each	7-Cubic Yard <u>Stainless Steel</u> Dump Body: (Vendor must supply precise detail information of Unit being Bid) As Per Specifications		
3	30	Each	Central Hydraulic System: CHS-2011 As Per Specifications		
4	30	Each	Tailgate Spreader: TS-2011 As Per Specifications		
5	30	Each	Rotator Lights: RL As Per Specifications		
6	30	Each	Snow Plow Lights: SPL-2011 As Per Specifications		
7	30	Each	Snow Plow Hitch: SPH-2011 As Per Specifications		
8	30	Each	Snow Plow: SP7-2011 As Per Specifications		
9	30	Each	7PTC 7 – Pole Connector As Per Specifications		
10	30	Each	Sketch “NL” As Per Specifications		

GRAND TOTAL OF LINES 1 THROUGH 10 =\$ _____

**ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX NO LATER THAN FIVE (5)
BUSINESS DAYS BEFORE BID OPENING**

DELIVERY DATE _____, to sites as specified in the bid specifications.
Discount Terms Based On Net 30 Days Only.

NEW JERSEY TURNPIKE AUTHORITY

AUTHORIZED SIGNATURE

Name of Company and / Authorized Signature of Bidder

NEW JERSEY TURNPIKE AUTHORITY

NO RESPONSE BID SURVEY

BID REQUISITION NUMBER: R-72890

PROPOSAL TITLE: 7- YARD DUMP TRUCKS

If you do not choose to respond to this Bid, please complete the form below:

Name of Company_____

Reason you did not respond (Check all that apply)

- _____ Cannot supply product or service
- _____ Cannot meet technical specifications
- _____ Cannot meet delivery specifications
- _____ Cannot meet legal requirements
(i.e. bid/performance/security/insurance, etc.)
- _____ Cannot provide a competitive price at this time
- _____ Interested in receiving specifications for informational purposes only.
- _____ Insufficient lead time to respond
- _____ Other:(please be specific)

Do you wish to remain on our mailing list?

_____Yes _____No

Additional comments: _____

Signed :(optional)_____

Company:_____

REASONS FOR BID REJECTION

The Authority sometimes has to reject bids that are not filed on time or submitted properly. Below is a list of reasons for bid rejection. Please use as a guide in preparing bids.

TYPICAL REASONS FOR BID REJECTION:

- LATE BID – DATE AND TIME
- FAILURE TO COMPLETE AND SUBMIT BID QUOTATION (INCOMPLETE BID)
- FAILURE TO SIGN AND NOTORIZE PROPOSAL AND NON-COLLUSION AFFIDAVIT (SIGNATURE PAGE)
- FAILURE TO COMPLETE STOCKHOLDER DISCLOSURE STATEMENT
- FAILURE TO SUBMIT AFFIRMATIVE ACTION COMPLIANCE
- FAILURE TO SUBMIT MANDATORY SAMPLES (When Required)
- FAILURE TO ATTEND MANDATORY BIDDER’S CONFERENCE/SITE INSPECTION (when required)
- FAILURE TO SUBMIT CHAPTER 51 (EO 134)
- FAILURE TO SUBMIT BUSINESS REGISTRATION CERTIFICATE
- FAILURE TO SUBMIT PROPOSAL BID GUARANTEE WITH THE BID(When Required)
- FAILURE TO SUBMIT PUBLIC WORKS CERTIFICATE WITH THE BID (When Required)

THE FOLLOWING CHECKLIST IS PROVIDED TO FURTHER ASSIST THE BIDDER IN COMPLETING THE BID:

- SUBMIT PROOF OF INSURANCE REQUIREMENTS (When Required)
- IF BIDDING AN ALTERNATE, PROVIDE DETAILED SPECIFICATION(S)
- QUOTE THE SPECIFIED UNIT OF MEASURE
- INCLUDE ALL REQUIRED DOCUMENTS - CATALOG(S)/PRICE LIST(S)/SPECIFICATION(S) (When Required)

SIGNATURE PAGE (1)

ADDENDA / INQUIRIES: COMPLETE (if applicable) BEFORE returning Request for Quotation:

Receipt of Addendum / Inquiries # _____ dated _____ is hereby acknowledged.

Receipt of Addendum / Inquiries # _____ dated _____ is hereby acknowledged.

(All addenda / inquiries must be acknowledged as indicated above.)

OFFER: The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the Contract. Signature also certifies understanding and compliance with the requirements of the standard terms and conditions.

Bidding Entity _____

Address _____

City, State, Zip _____

Telephone No. _____ Fax _____

BID IRREVOCABLE: This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this bid except in those instances where an unsuccessful bidder has filed a Protest pursuant to N.J.A.C. 19:9-2.12. All bidders will be notified in writing of the action taken by the Authority.

DISCLOSURE STATEMENT

The undersigned firm name of Bidder, in compliance with Public Law 1977, Chapter 33, does hereby state and declare the following list of stockholders or partners in this corporation or partnership, as the case may be, with 10 percent or greater interest therein.

<u>Name</u>	<u>Address</u>	<u>Number of Shares of Stock, Corporation or % of Interest in Partnership</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

SIGNATURE PAGE (2)

NON-COLLUSION AFFIDAVIT: The undersigned being duly sworn according to law on my oath dispose and say that I am the bidder making this proposal for the above named referenced requisition, and that I execute this proposal with full authority so to do; that said bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above referenced requisition; and that all statements contained in this proposal and in this affidavit are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained herein and in any statements requested by the Authority showing evidence of qualifications in awarding the contract.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by our firm.

AUTHORIZED SIGNATURE: _____

Print Name and Title: _____

Subscribed and sworn to before me

This _____ day of _____, 20_____.

Notary Public of the State of _____

My commission expires _____, 20_____.

ADDITIONAL YEARS PURCHASING OPTION

3- Year Open End Option: The Authority shall have the option for one (1) Model Year* from the date of Contract, to order additional units conforming to the requirements of these specifications at the same price and under the same terms and conditions as those required herein.

The Authority shall further have the option to purchase additional units conforming to these specifications for two (2) additional Model Years. Any unit(s) offered during the two (2) subsequent Model Years shall be of the model equivalent to that specified herein. In the latter instances, if there have been any price changes in the two subsequent Model Years, the vendor shall submit a request to the Authority covering the aforesaid price changes, and shall include appropriate explanation and justification for any such price changes.

Any such request for price adjustment shall be in writing and directed to the Director, Purchasing Department and shall be accompanied by the following evidence as a basis for your request;

1. The published price lists for equipment, which were in effect at the time of your original proposal.
2. The equivalent published price lists in effect at the time of your request.
3. Any additional evidence which the Authority deems necessary in the evaluation of your request.

The Authority shall, within its sole discretion, have the right to accept the price changes proposed by the vendor or if it is so desires re-bid the requirement.

*Model Year is defined as the Model Year of the Manufacturer of the unit(s) offered by you in this Request For Quotation. In that instance where proposals are for equipment for which "Model Year" and "Production Cut-Off Dates" are undefined or non-existent, the "Model Year" is defined, for bid purposes, as one calendar year from the date on which the Contract is accepted. The last date on which orders may be placed for the Model currently in effect is _____ .

[illegible]

Date _____

NEW JERSEY TURNPIKE AUTHORITY

GENERAL INSTRUCTIONS-MAINTENANCE DEPARTMENT BIDS

1. This bid and attached specifications govern the purchase of:

Item #	Quantity	Description	Maximum Delivery Date
I.	30	40,000 lb G.V.W.R. Conventional Cab & Chassis Equipped with 7-Cubic Yard Aluminum Dump Body, Tailgate Spreader, Snowplow Hitch, 11' Snowplow and Accessories	180 Days After Receipt of Order (see Pilot Model/Delivery Schedule section for detailed instructions)

(Authority's option to purchase up to 10 additional vehicles)

ALTERNATE BODY: BIDDER'S MUST PROVIDE A SECOND QUOTE ON THE ABOVE PACKAGE WITH A STAINLESS STEEL DUMP BODY IN LIEU OF THE ALUMINUM DUMP BODY. THE STAINLESS STEEL DUMP BODY MUST BE COMPARABLE TO THE ALUMINUM DUMP BODY IN SIZE, STRUCTURAL STRENGTH, AND INTEGRITY. BIDDERS MUST PROVIDE QUOTES ON BOTH TYPES OF BODY PACKAGES. FAILURE TO PROVIDE BOTH QUOTES MAY RESULT IN REJECTION OF BID.

2. SPECIFICATIONS: Specifications covering purchase of unit above are as follows:

CC-2011 CAB CHASSIS
DB-2011 SEVEN CUBIC YARD DUMP BODY
CHS-2011 CENTRAL HYDRAULIC SYSTEM
TS-2011 TAILGATE SPREADER
RL-ROTATOR LIGHTS
SPL-2011 SNOW PLOW LIGHTS
SPH-2011 SNOW PLOW HITCH
SP7-2011 SNOW PLOW
7PTC 7-POLE CONNECTOR
SKETCH "NL"

3. COMPLIANCE WITH RULES AND REGULATIONS: The unit and associated equipment furnished must comply with all Federal and State Motor Vehicle Safety Laws and Regulations. The unit and all associated equipment furnished shall be capable of passing the New Jersey State Motor Vehicle Inspection Laws, where applicable.

4. ENERGY STAR REQUIREMENTS: If applicable for items specified in bid package, the vendor must provide products that earn ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency. The vendor is encouraged to visit energystar.gov for complete product specifications and updated lists of qualifying products. The ENERGY STAR label must also be affixed to each delivered item. The bidder's signature on the signature page certifies that items so indicated that have earned ENERGY STAR and meet the ENERGY STAR specifications or other standards for energy efficiency will be supplied to Using Agencies, if a contract is awarded to the bidder.

5. ERRORS AND OMISSIONS: Inadvertent omissions, errors, and required changes in the attached specifications must be brought to the attention of the New Jersey Turnpike Authority (Authority) Director of Purchasing before bid submission date. If the bidder discovers any errors or omissions in the work undertaken and executed by them, they shall immediately notify Peter Perperas (Project Supervisor) at 609-426-6385, who shall promptly verify the same.

If, with knowledge of such error or omission and prior to the correction thereof, the bidder proceeds with any work affected hereby, they shall do so at their own risk and the work so done shall not be considered as work done under and in performance of this Agreement unless and until approved and accepted. It is the responsibility of the furnishing vendor to deliver a complete, operative and efficiently functioning unit.

6. PILOT MODEL AND DELIVERY SCHEDULE: The successful bidder shall make available one (1) fully completed pilot unit that shall be fully compliant with Authority specifications for inspection and acceptance by the New Jersey Turnpike Authority within ninety (90) days after receipt of purchase order. Questions, which arise before or during the preparation of the pilot model, shall be addressed in writing via e-mail from the vendor to Peter Perperas (Project Supervisor) of the New Jersey Turnpike Authority at perperas@turnpike.state.nj.us on a not to delay basis. All inspections shall take place at the New Jersey Turnpike Authority Division's Central Shops Facility located at Exit 8 in Hightstown, NJ 08520.

The Authority shall inspect the completed pilot model within five (5) days of receipt of pilot model from vendor. The vendor shall then be required within ten (10) days to complete corrections, where needed to meet specifications and receive written Authority approval prior to the completion of the order. In the event of any deficiencies, an additional inspection of the pilot model will be required prior to build approval to take place within the ten (10) day cure period. Non-compliance with the foregoing delivery and inspection requirements shall constitute a material breach of the specifications and grounds for rejection of the bid.

Maximum days allotted to deliver all units fully completed and in full compliance shall be one hundred-eighty (180) days from the date of issuance of a purchase order. In the event the vendor fails to timely deliver all vehicles within one hundred-eighty (180) days from date of issuance of purchase order, the vendor shall pay the Authority liquidated damages in the amount of \$280.00 per vehicle for each calendar day (**No Exceptions for Liquidated Damages**) beyond the maximum delivery date, as per Dataquests Rental Rate Blue book for Construction Equipment.

The deadlines set forth herein are critical and vendor understands and accepts that "time is of the essence" for each of these milestones. Vendor further understands that it proceeds at its own risk in undertaking these obligations.

7. PROGRESSIVE PAYMENTS: The Authority shall agree to pay the awarded vendor 75% or \$60,000 whichever is less on their cab/chassis listed cost that must be supplied in their bid. This payment shall only be made upon sworn written certification and voucher authentication of the Authority's cab/chassis's. The Authority shall have the right to visit the awarded vendor or body builder to inspect the cab/chassis's upon their receipt from the manufacturer but no later than December 15, 2010-**NO EXCEPTIONS**. The balance of the payment shall be paid by the Authority upon final Authority acceptance of the fully completed-fully compliant vehicles.

8. DELIVERY INSTRUCTIONS: Vendor must contact the Authority to schedule date and time prior to delivery. Contact Peter Perperas (Project Supervisor) at 609-426-6385 when unit is ready for delivery to the Authority's facility. Any work that needs to be completed including all pre-delivery preparation will be done at the vendor's facility by the vendor.

ALL UNITS SHALL BE DELIVERED TO THE NEW JERSEY TURNPIKE AUTHORITY'S DIVISION CENTRAL SHOPS FACILITY LOCATED AT NEW JERSEY TURNPIKE EXIT 8 IN HIGHTSTOWN, NJ 08520.

If and where specified in supplemental orders, units may be required to be delivered to the Authority's Garden State Parkway's Division Telegraph Hill Maintenance Facility located at Garden State Parkway Exit 116 in Holmdel, NJ 07733. Vendor must contact the Fleet Administrator at 732-888-5025 to schedule date and time prior to delivery.

No unit shall be received by the Authority without a delivery authorization slip presented by the vendor's representative at the Authority's receiving gate. Vendor shall be responsible for all delivery, shipping and pick-up expenses.

All units must be pre-delivery serviced, completely assembled, operational, (including a minimum of a half tank of fuel) and cleaned before delivery authorization is issued. It shall be the responsibility of the awarded vendor to pre-inspect each vehicle prior to delivery.

Each vehicle will be thoroughly inspected by the Authority prior to acceptance for conformance to the bid specifications and consistency with the approved pilot model.

Any deficiencies must be promptly corrected by the vendor at its facility, and its own expense within the one hundred-eighty (180) day deadline specified in Section 6.

The following administrative package must accompany all deliveries: (NJTA Inspectors shall verify during pre-delivery inspection).

- Certificate of Origin with purchase (Certificate of Origin shall be stamped "Sales Tax Satisfied" and shall be made out to New Jersey Turnpike Authority, 581 Main St. Woodbridge, NJ 07095). C.O. shall have current date and be hand delivered to Peter Perperas (Exit 8-Central Shops Facility in Hightstown, NJ) after final acceptance of complete order.
- Vendors invoice processed for NJTA payment procedures. (Purchase order number must be displayed on invoice). Invoice shall have current date and be hand delivered to Peter Perperas (Exit 8-Central Shops Facility in Hightstown, NJ) after final acceptance of complete order.
- Warranty forms properly executed.
- Four (4) keys for each vehicle shall be furnished (each vehicle shall have an independent key code). Successful bidder must supply a key code listing for each vehicle identification number. **NO EXCEPTIONS**
- Four (4) keys, keyed alike for toolboxes or similar compartments (including body limit switch) on each vehicle shall be furnished. **NO EXCEPTIONS**
- Packing list of additional parts and accessories not installed on units, i.e. items to accompany units on delivery.
- State MVC (Motor Vehicle Commission) required inspection stickers shall be provided with each vehicle upon delivery.
- Federal Safety Inspections shall be performed and stickers shall be attached to the vehicles prior to delivery.
- A copy of the Pre-Delivery Inspection (PDI) form for each vehicle.

9. **WARRANTY:** All units delivered must be guaranteed to be free from defects in materials, design and workmanship for two (2) years from the time of acceptance by the New Jersey Turnpike Authority. Warranty must include service availability from any manufacturer's authorized dealer establishment most closely located to Turnpike area. This repair facility may not be further than 100 miles from either Northern Division (milepost 104.7 southbound) Newark, NJ or Central Shops Facility (Exit 8) Hightstown, NJ or Southern Division (milepost 38.0 northbound) Mt. Laurel, NJ. If warranty service is required, the vendor who supplied the unit shall provide for pickup, delivery and repair of unit at no charge to the New Jersey Turnpike Authority. The vendor shall also have a program to include an in house warranty. **All warranty periods will start from date of acceptance of unit by the New Jersey Turnpike Authority. Successful bidder must supply written certification of all manufacturers' warranties upon delivery of units. NO EXCEPTIONS**

10. TECHNICAL SHEETS: All bids **must** contain a separate detailed specification/technical sheet describing exact equipment that shall be provided. Failure to include these items may be cause for rejection of bid. **Brochures alone shall not be acceptable.**

11. EXCEPTION SHEET: Exception sheet is furnished with each set of specifications. Bidders making exceptions **must** note exceptions by item and indicate substitution in lieu and submit with bid, detailed specifications on the substitution. If the vendor is submitting an alternate product, component, feature or part to what is referenced in the specifications, the proposals **must** be accompanied by descriptive literature, marked and indicating the exact items to be furnished, with an engineering drawing of the same. **Failure to supply information requested may result in rejection of bid.** Where no exception is taken, the word “None” shall be neatly printed or typed on the exception sheet. **Failure to supply information and failure to complete the bidder’s exception spaces in the prescribed manner may disqualify bid. It shall be understood that if no exception is taken, the vendor shall supply all material exactly as specified. No substitution will be permitted after receipt of bids.**

12. UNIT INFORMATION FORM: Vendor shall complete the entire Unit Information Form. **Failure to fully complete all forms may result in rejection of bid.**

13. SERVICE PARTS IDENTIFICATION FORM: Vendor shall complete the entire Service Parts Identification Form, where applicable. Replacement parts shall be available to the general using trade, parts shall not be proprietarily manufacturer protected. **Failure to complete all forms may result in rejection of bid.**

14. MANUFACTURER’S PRODUCTION SHEET: The vendor shall furnish one (1) copy of the actual Factory Production Sheet for each unit provided.

15. TRAINING: It shall be the responsibility of the successful bidder to supply all safety, operational and service training to New Jersey Turnpike Authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer’s owner manual, along with actual operation of equipment. The instructor shall emphasize all proper uses for safe operation. The training shall include but not limited to all general troubleshooting of the hydraulic system and associated electronics. The instructor shall also emphasize the proper use of tools and test equipment along with general shop safety. The service seminars shall be similar to factory and manufacture type schools. The training shall be scheduled and take place at two (2) sites designated by the New Jersey Turnpike Authority.

16. LABELS: All controls and switches installed on unit by chassis manufacturer or sub-contractor shall be clearly and permanently labeled. Plastic stick-on labels shall **not** be acceptable.

17. ADVERTISEMENTS: No Dealer advertisements shall appear on the cab, chassis, body or any other related equipment.

18. ACCESSORIES: All accessories shall be manufacturer installed when the item is available from the manufacturer.

19. FACILITIES: Bidders shall represent a manufacturer, which has in operation, a factory adequate for the manufacture of the equipment, which it proposes to furnish. The manufacture(s) whose associated equipment or products are bid shall have a full service warranty and parts supply facility that can guarantee availability of parts within 24 hours after telephone order and shall be located within a 100 mile radius of the both Central Maintenance Facilities located in Holmdel, NJ 07733 and Hightstown, NJ 08520. This facility will be required to establish an in-house warranty program and provide all warranty work related to the equipment in the bid proposal. The bidder shall submit the location, names and telephone numbers of people who are authorized to service the equipment or can be reached for emergency service.

Location_____

Phone #_____

Contact_____

Name & Title

**VENDORS MUST LIST COST OF ALL ITEMS BELOW. FAILURE TO DO SO MAY
RESULT IN REJECTION OF BID.**

ITEM	UNIT COST
Cab Chassis: CC-2011	
7-Cubic Yard <u>Aluminum</u> Dump Body: DB-2011	
Central Hydraulic System: CHS-2011	
Tailgate Spreader: TS-2011	
Rotator Lights: RL	
Snow Plow Lights: SPL-2011	
Snow Plow Hitch: SPH-2011	
Snow Plow: SP7-2011	
7PTC 7-Pole Connector	
Sketch "NL"	
	Total Unit Cost \$ _____

**VENDORS MUST LIST COST OF ALL ITEMS BELOW. FAILURE TO DO SO MAY
RESULT IN REJECTION OF BID.**

ITEM	UNIT COST
Cab Chassis: CC-2011	
7-Cubic Yard <u>Stainless Steel</u> Dump Body (Vendor must supply precise detailed information of unit being bid)	
Central Hydraulic System: CHS-2011	
Tailgate Spreader: TS-2011	
Rotator Lights: RL	
Snow Plow Lights: SPL-2011	
Snow Plow Hitch: SPH-2011	
Snow Plow: SP7-2011	
7PTC 7-Pole Connector	
Sketch "NL"	
	Total Unit Cost \$ _____

**SPECIFICATIONS: CC-2011
CAB CHASSIS**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

GENERAL:	COMPLY	
	YES	NO
A. 2011 or new current model International 7400 SFA (Set Forward Axle) 4 x 2, 6-wheel configuration or an approved equivalent.		
FRAME:		
A. 10.125" x 3.580" x 0.312" 120,000 psi minimum main frame rails, one piece, extending 20" ahead of grille.		
B. 10.813" x 3.892" x 0.312" full "C" channel reinforcement, one piece extending the entire length of main frame including the extension.		
C. 3,580,800 RBM (Resisting Bending Movement) minimum.		
D. Huck fasteners shall be used for all cross members, fuel tank, and battery box brackets.		
E. Heavy-duty channel type front bumper with ends swept back at 30° angles and bolt-on front tow hooks with opening through bumper.		
F. Bolt-on or welded frame sections shall not be acceptable.		
G. Bolt-on front tow hooks with opening through the bumper. One right and one left, within easy access to afford quick operator hook up of tow chain. Hooks shall be of drop forged steel with a minimum of 44,500 lb working load. Grade 8 bolts shall be use to attach hook to chassis. Each hook shall be curved upward to assure tow chain will not fall off when no tension is present. Weld on hooks shall not be acceptable.		
H. The wheelbase shall be 165", cab to axle shall be 90" and AF shall be as required for body.		
I. 40,000 lb G.V.W.R.		
J. The Authority reserves the right to determine final CA and AF dimension at issuance of Purchase Order.		
FRONT BUMPER:		
A. Heavy-duty steel 10" channel shall replace standard front bumper and shall be bolted via grade 8 bolts and self-locking elastic nuts to the front frame extension of the chassis.		
B. The bumper shall have means for mounting the front license plate.		
C. Two (2) steps, one (1) each side shall be constructed of 2" Bustin or approved equivalent material.		
D. Steps shall be 8" wide x 8" deep.		
E. Step brackets shall be a minimum of 3/8" x 2" A36 material.		
FRONT CATWALK:		
A. The front frame extension shall incorporate an aluminum catwalk between the bumper and the chassis.		
B. The catwalk shall be three (3) section aluminum dirt shedding and have a separate top edge for positive foothold.		
C. Material shall be Bustin or approved equivalent and be attached via rust proof stainless steel bolts with self-locking elastic insert nuts.		
D. Catwalk shall be located to provide best possible access to the chassis and engine		

components.		
E. The outer two (2) sections shall be capable of supporting 500 lbs.		
FRONT AXLE:		
A. 14,000 lb capacity front axle, Meritor MSF-14-143A wide track or approved equivalent.		
B. King pin center shall be a minimum of 71½".		
C. Greasable drag link and tie rods.		
D. Weight capacity of front axle must be able to accommodate snow plow hitch and snow plow specified in this bid package.		
FRONT SUSPENSION:		
A. 14,000 lb capacity front suspension.		
B. Parabolic taper-leaf front springs with shock absorbers.		
C. Spring pins shall be rubber bushed and maintenance free.		
D. 2,000 lb capacity auxiliary front springs.		
REAR AXLE:		
A. Rockwell RS-26-185 or approved equivalent.		
B. 26,000 lb capacity single reduction with driver controlled main locking differential.		
C. Axle switch shall be LED back-lighted.		
D. An automatic disengage feature shall be supplied to disengage the locking mechanism after the vehicle reaches a speed of 25 mph.		
E. Factory installed synthetic gear lube and magnetic drain plug shall be installed.		
F. Axle ratio shall enable vehicle to cruise at 65 mph at maximum G.V.W.R.		
REAR SUSPENSION:		
A. 31,000 lb capacity vari-rate rear springs.		
B. Included shall be 4,500 lb capacity multi-leaf auxiliary springs.		
BRAKES:		
A. Brake pedal and valve shall be firewall suspended.		
B. ABS anti-lock air brakes.		
C. Diagnostic electronic capability shall inform operator the mechanic of any malfunctions including area of system failure.		
D. Air dryer Meritor System Saver and a DV-2 moisture ejector or approved equivalent on wet tank.		
E. "S" cam type on front with 16.5" x 5" shoes and 16.5" x 7" rear shoes.		
F. 13.2 cubic foot gear driven air compressor with dual air supply gauges.		
G. Air pressure gauges shall be located in the instrument cluster.		
H. Automatic slack adjusters shall be provided.		
I. All air lines shall be color coded.		
J. Dust shields shall be provided on front and rear brakes.		
K. Parking brake alarm shall be provided. Horn shall sound when parking brake is not set with ignition off and any door opened.		
STEERING:		
A. Full hydraulic power steering.		
B. Steering column shall be tilt style.		
EXHAUST SYSTEM:		
A. Horizontal diesel particulate filter shall be located outside frame rail and under cab floor.		
B. Exhaust pipe shall be vertically mounted on a bracket and attached to the frame rail.		
C. Curved tailpipe and heat shield shall be supplied.		
D. A dash-mounted switch shall be provided to inhibit diesel particulate filter regeneration.		
ELECTRICAL:		
A. Programmable electrical system with self-diagnostics. System shall be designed to isolate electrical problems on the input/output side of circuit and display fault codes. Color coded and continuously numbered wiring shall be supplied.		
B. All electronically controlled accessory equipment shall be interfaced to a Body Integrated Remote Power Module mounted inside cab; up to 6 outputs and 6 inputs, maximum 20 amps		

per channel, maximum 80 amps for each required module. (Includes 2 dash-mounted switch pack with 6 switches latched/labeled and back-lighted) with this system including but not limited to switches, controls and indicators. Anticipated provisions shall be communicated to the chassis manufacture prior to chassis build.		
C. All circuit breakers shall be protected by manual reset circuit breakers and shall be mounted in the center control panel.		
D. Two (2) 12-volt 1850 CCA maintenance free batteries with over crank protection.		
E. AM/FM radio with weather band, clock, and speakers.		
F. Turn signal switch shall include “flash to pass” feature.		
G. Daytime running lights, fender mounted dual faced amber/amber directional lights in addition to front corner directional shall be provided.		
H. Taillights shall have a separate 8' of cable for left and right side body lights.		
I. The following lights shall automatically turn on when wiper switch is engaged: <ul style="list-style-type: none"> • Headlights • Taillights • Marker lights 		
J. Five (5) LED cab marker lights shall be provided.		
K. Wipers shall have two (2) speeds with washer and intermittent feature. Wiper control shall force wipers to their slowest intermittent speed when parking brake is set and wipers are left on for more than 30 seconds.		
L. 185-amp Leece-Neville BLP2356H brushless, pad mounted or approved equivalent alternator.		
M. Gauges & Lights: <ul style="list-style-type: none"> • Oil pressure • Water temperature • Warning lights • Voltmeter • Speedometer • Tachometer • Odometer • Trip miles • Engine hours • Trip hours 		
N. Dual electric horns.		
O. Back-up alarm shall be a Preco 45-AA or approved equivalent. Shock mounted alarm shall be mounted under right taillight.		
P. Body builder harness shall be located outside of cab. Included shall be stop, tail, turn, and marker light circuits, ignition controlled auxiliary feed, and ground.		
Q. Chassis manufacture shall supply 2-way radio wiring with 20 amp fuse protection. Shall include 5 amp fuse and be routed to overhead radio console.		
R. A weatherproof module for body builder connections shall be located inside the cab.		
S. All switches must be back-lighted and (OEM) labeled.		
T. All electrical powered auxiliary equipment not installed by chassis manufacturer shall be wired in accordance with section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be installed in a weather tight junction box or weather pack connector. Solderless connectors are unacceptable. Any holes drilled for installation of accessories, wiring, brackets, etc shall be properly primed, sealed with silicone and painted prior to installation to prevent rust.		
U. Chassis manufacture shall supply a 36" wiring harness for separate snow plow head lights and turn signals with LED back-lighted rocker type switch.		
V. Snowplow lights shall be supplied. See Specifications: SPL-2011.		
W. In addition to the control switch, all lighting and accessories shall turn off with ignition key “off” except for Federal D.O.T. requirements.		

X. It shall be the responsibility of the body supplier to ensure capability of installed equipment with switches provided by chassis manufacturer. The following switches shall be provided by the chassis manufacturer and will be incorporated in the chassis standard wiring and circuit protection: NO EXCEPTIONS <ul style="list-style-type: none"> • Plow lights • Front rotators • Rear strobes • Spinner light 		
ENGINE:		
A. Electronic, 6-cylinder turbo-charged diesel engine.		
B. 310 Horsepower minimum @ 2000 rpm.		
C. 1050 lb/ft Torque minimum @ 1050 rpm.		
D. 570 Cubic inch displacement.		
E. Replaceable “wet type” cylinder piston liners. Oil cooled pistons.		
F. Positive valve rotators on both intake and exhaust valves.		
G. Heavy-duty starter with over crank protection.		
H. Cruise control integral with steering wheel.		
I. Provision for remote mounted engine control to include wiring for body builder installation of PTO controls, ignition switch controlled.		
J. Heavy-duty radiator with two (2) speed air operated fan drive.		
K. Ethylene Propylene Diene Monomer (EPDM) hoses or approved equivalent.		
L. Constant torque heat shrink radiator clamps.		
M. Single element air cleaner with driver controlled snow valve, integral dash mounted air restriction gauge.		
N. 120-volt engine block heater with weather protected flip plug cover shall be located under driver’s door.		
O. Extended long life coolant protected to at least -40° F. The system shall be tagged indicating make, type of anti-freeze and degree of protection.		
P. Low coolant level warning light and audible alarm.		
Q. Automatic engine shutdown system for oil pressure, coolant temperature, and coolant level with a 30 second delay and auto override.		
R. Heated fuel/water separator.		
S. Fuel pressure sensor.		
T. All engine and emission related system fluids shall remain as a stable liquid unaided within the normal expected vehicle ambient temperature operating range of -20° F to 100° F.		
TRANSMISSION:		
A. Allison 3000 RDS or approved equivalent.		
B. Five (5) forward speeds automatic with dash mounted push button control.		
C. Included shall be a transmission oil cooler and temperature gauge.		
D. Synthetic transmission fluid shall be used and installed by OEM.		
E. Furnished PTO provision and dash mounted temperature gauge.		
F. Chassis manufacturer installed PTO accommodation for electric cover hydraulic PTO with dash mounted, back-lighted switch and indicator light in gauge cluster. Shall have wiring incorporated and over-speed protection programmed within the OEM electrical system.		
FUEL TANK:		
A. 50-gallon minimum capacity aluminum fuel tank mounted under cab and shall include stainless steel straps.		
B. Thermostat controlled electric fuel heater and filter with filter restriction/change indicator.		
C. Fuel tank shall be labeled in 1" high green letters “ DIESEL FUEL ONLY ”.		
D. Vent tube for fuel tank shall be attached to a bracket via zip-tie.		

FRONT TIRES & WHEELS:		
A. Two (2) Goodyear or approved equivalent 12R22.5, 16 ply highway tread radials.		
B. Hub piloted black powder coat paint 8.25" steel disc wheels.		
REAR TIRES & WHEELS:		
A. Four (4) Goodyear or approved equivalent 12R22.5, 16 ply highway tread radials.		
B. Hub piloted black powder coat paint 8.25" disc wheels.		
C. Rear plain black mud flaps (No Advertisements).		
SPARE TIRES & WHEELS:		
A. One (1) spare tire shall be supplied for each vehicle ordered in this bid package.		
B. Spare tires and wheels shall be identical to make and model of what shall be supplied on vehicle.		
PINTLE HOOK AND PLATE:		
A. A rear pintle hook and plate shall be installed and include a suitable cotter pin to facilitate locking the release, the cotter pin shall be attached to the pintle hook assembly by means of a light duty chain to prevent the loss of the cotter pin.		
B. A ½" thick by at least 36" wide formed steel plate, full width of chassis frame rails, with a 3" return flange at the bottom shall be bolted to the chassis frame.		
C. Bottom and side support gussets shall be included.		
D. Two (2) swivel ¾" cold rolled steel "D" loops, 3" i.d. minimum shall be attached to the bottom flange.		
E. Properly sized grade 8 bolts shall be used throughout the installation.		
F. The pintle hook height shall be 26" from ground to center of hook.		
G. A non-metallic weatherproof seven (7) wire trailer socket shall be mounted through the hook plate on the upper left side of the pintle hook and wired to the chassis as outlined in Specifications: 7PTC. Exact location shall be determined by contacting the NJTA Inspector prior to mounting.		
H. The pintle hook shall be attached to the frame plate with grade 8 bolts in accordance to the manufacturer's specification.		
I. The pintle hook shall be rated at a minimum of 20 tons.		
J. An electronic brake controller in addition to the ABS brake controller shall be cab mounted and wired into the seven (7) wire plug as per Specifications: 7PTC. Exact location shall be determined by contacting the NJTA Inspector prior to mounting.		
K. A complete ABS air brake trailer system including a hand valve control and trailer protection valve shall be installed with the exception of the Glad Hands. The Glad Hand outlets on the pintle plate (location to be determined by the Authority) shall be plugged to prevent air leakage. The Glad Hands shall be supplied to the Authority separately and not installed.		
CAB:		
A. Conventional galvanized steel cab.		
B. Hood shall be a 3-piece design with stationary bright finished grille.		
C. Odometer shall display miles, trip miles, engine hours, trip hours, and engine/vehicle system codes.		
D. Included shall be cab rear air bag suspension.		
E. All glass shall be tinted.		
F. Body builder "knockout" shall be provided in cab floor for body builder connections.		
G. Air operated, high-back vinyl driver seat with headrest and lumbar support and inboard armrest.		
H. High-back vinyl non-suspended passenger seat with headrest.		
I. 3-Point seatbelts with automatic retractors.		
J. Overhead console with radio pocket wired as described in Paragraph Q of Electrical Section.		
K. Include shall be front storage pockets.		
L. Dome light, left and right interior courtesy lights shall be mounted on door pockets.		

Lights shall activate when doors are opened.		
M. Dual sun visors.		
N. In-dash cup holder.		
O. Driver's door storage pocket.		
P. Interior grab handles on both sides.		
Q. Chrome exterior grab handle with rubber insert-drivers side of cab.		
R. Exterior mirrors shall be approximately 16" x 7" with break-away style "C" stainless steel brackets and convex mirrors. A look down 6" x 10" panoramic mirror shall be mounted above passenger door. Both primary mirrors shall be motorized and controlled by a switch located in cab within easy reach of the driver. Primary and convex mirrors shall be thermostatically heated.		
S. HVAC system shall include heater/defroster/air conditioning. Air conditioning system shall have self-diagnostic features with dash displayed fault codes.		
T. Standard instrumentation packages shall be included with plug in type gauges.		
U. Hood wheel well rubber fender extensions shall not be acceptable.		
MISCELLANEOUS:		
A. Provided in cab shall be a dry chemical 5 lb "UL" listed fire extinguisher suitable for ABC class fires. A quick-release type metal bracket shall be used to mount extinguisher to base of control panel pedestal. <u>NOTE:</u> Holes may not be drilled into pedestal to mount quick-release bracket due to wiring running through pedestal. Wires passing through floor at bottom of pedestal must be neatly and uniformly filled with silicone.		
B. Provide a D.O.T. approved reflective triangle kit in cab.		
PAINT:		
A. All metal parts shall have the mill scale and oil removed by means of a high-pressure chemical cleaner prior to painting.		
B. All frame and running gear shall be painted manufacturers black.		
C. The top of the hood shall be painted non-reflective flat black.		
D. The other sections of the cab shall be painted with DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
E. Wheels, bumper, battery box, air tanks, and engine oil pan shall be powder coat painted.		
DIAGNOSTIC, REPAIR & PARTS:		
A. The awarded vendor shall provide a three (3) year manufacturers Web-based diagnostic, repair, and parts subscription including truck chassis and engine.		
B. Diagnostic and repair information for transmission, air-brake system, and other installed components shall be Web-based or PC based software.		
C. Eight (8) complete sets of factory diagnostic and repair vehicle interface software, to include all necessary cabling and connections for a laptop computer shall be supplied.		
MANUALS:		
A. A detailed schematic and description of any body hydraulics, electrical, and other components not installed by chassis manufacturer shall be provided. Twenty-three (23) of each of the following manuals in either paper form or computer disc shall be supplied upon delivery: Operation, Repair, Maintenance, Parts, and Electrical.		
AUTOMOTIVE TECHNICIAN TRAINING:		
A. The awarded vendor shall provide accredited authorized manufacturer new model training on the vehicles listed in this bid package. This training shall take place at two (2) designated Authority facilities for approximately fifty (50) technicians at each facility.		
WARRANTY:		
A. Engine shall be covered for seven (7) years/150,000 miles/5400 hours including all electronic engine components and injectors at 100% parts and labor.		
B. Cab shall be covered for five (5) years unlimited miles for perforation, corrosion, and structure.		
C. The frame shall be covered at 100% parts and labor for seven (7) years/unlimited miles		

for cracks.		
D. The transmission shall be covered for five (5) years/unlimited mileage at 100% parts and labor.		
E. All warranties shall start upon date of acceptance from the New Jersey Turnpike Authority.		
PROVISIONS:		
A. Vehicles in this bid package shall <u>not</u> be used as lead vehicles in transporting (piggybacking) other vehicles and/or equipment.		
B. Vendor <u>must</u> also show written proof that these vehicles were not used as lead vehicles.		
C. Mileage on the odometer for each vehicle <u>must not</u> exceed 600 miles (mileage warranties shall be adjusted accordingly from odometer at time of acceptance of these vehicles by the New Jersey Turnpike Authority).		
D. Vendor shall show written proof of the adjusted/extended warranty at time of delivery.		
E. Vendors shall not be allowed to use vehicles in any type of shows, conventions, brochures, etc without prior written consent of the New Jersey Turnpike Authority.		

**SPECIFICATIONS: DB-2011
SEVEN (7) CUBIC YARD ALUMINUM DUMP BODY**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

GENERAL:	COMPLY	
	YES	NO
A. Seven (7) cubic yard minimum aluminum dump body.		
B. All component installation shall conform to the latest recommendation, procedures, and regulations of the following organizations: ASME, ASTM, AISI, API, AWS, DOT, FPS, ICC, JIC, MSS, NFPA, NEMA, NTEA, SAE, TTMA, and USASI.		
C. Dump body and hoist shall be from the same manufacturer and be of the latest design. Body and hoist shall be installed by an installer approved by the manufacturer of said components.		
D. Dump body and hoist shall be sized to provide proper load lifting capacity based upon size of each component in relationship to overall size of equipment specified.		
E. All components and installation shall be reviewed and approved in writing by the awarded vendors engineering department and shall be given to the NJTA Inspector at the pilot model inspection.		
F. Solid weld construction shall be used throughout unless otherwise specified.		
BODY DIMENSIONS:		
A. The following specifications are to be considered minimum: Length.....120" Rear Post.....43" Max. Width.....96" Tailgate Height.....42" Side Height.....36" Cab Shield.....None		
BODY CONSTRUCTION:		
A. The body shall be constructed of aluminum.		
B. The floor shall be one-piece of at least .375" thick minimum x 5454-H34 88" wide abrasive resistant aluminum.		
C. The under structure long members shall be at least 6" aluminum "I" beam and utilize 2" x 3" 60 durometer rubber cushion.		
D. The cross members shall be 4" aluminum extrusion. The cross members shall be on 12" centers or less with gussets to the long members stitch welded to floor and incorporate a minimum 1/4" x 3" gusset to long member.		
E. The bottom side rails and dirt shedder shall be one-piece full length construction, 6061-T6 extrusion.		
F. The top rails shall be one-piece construction, 4.075" x 3.875" x 6061-T6 structural extrusion.		
G. The corner posts and side vertical braces shall be solid weld construction.		
H. Sides shall be .250" x 5454-H34, one piece.		

I. The side braces shall be 6061-T6 x 7" face x depth of 3.688" on 24" centers, solid weld construction.		
J. The corner posts shall have sideboard holders (.1875) at the front and rear.		
K. The sideboards shall be oak, full length 8" x 2" and shall be sealed, primed, and painted the same color as the cab of the truck. The boards shall be bolted in place through the board holders (front & back).		
L. The bulkhead shall be one-piece construction (.250 x 5052H32), properly reinforced with top edge at cab roof height and include tarp hooks.		
M. The rear bolster shall be .375 6061-T6 full depth and full width but not to exceed 96".		
N. The front and rear corner post shall be 5052 x 10" face full length, solid weld construction (3.5" minimum).		
O. The dirt shedder shall be full length both sides.		
P. The inside radius shall be 3" radius full length integral with rubrail, one-piece.		
Q. A vinyl barrier shall be placed between all dissimilar metals.		
TAILGATE:		
A. .375" x 5454-H34 main sheet.		
B. The tailgate shall have one (1) horizontal brace 6061-T6 x 3.635" x 7" and vertical braces as required. Inverted angle dirt shedder on the top brace. A full-length latch pin shall be inserted.		
C. Tailgate chains shall be a minimum of .375" high sheen, clevis removable and covered with nylon mesh.		
D. Top pins shall be 1" diameter standard style and include a .125" retention chain.		
E. Banjo plates shall be a minimum of .375" thick, two (2) per side.		
F. Two (2) "J" hooks shall be permanently attached to lower section of tailgate.		
G. Top hardware shall be a flush mount style.		
H. Bolt-on type hardware and pins shall not be acceptable.		
I. In each lower corner of the tailgate shall be a yellow caution label that reads in 1" high black letters "STAY CLEAR OF TAILGATE".		
WALK RAIL:		
A. 1¾" wide raised Alcoa aluminum ventilated diamond back or approved equivalent. Walk rail shall be full length on both sides of body.		
TARP RAIL:		
A. 6061-T6 extrusion x 2.25" x .625" aluminum full length on both sides of body. Shall include a 1" wide recess for striping.		
TARP:		
A. The tarp system shall be a Pioneer E-600 or approved equivalent.		
B. The spring loaded 3" telescoping roller housing shall be 84" to 96".		
C. The tarp shall have guides, ropes, cheats and "J" hooks to secure the rear section to the truck body.		
D. The tarp shall be sufficient in length to accommodate 10' bodies and shall be asphalt resistant.		
E. The overall length shall be 12' to 15' and shall come complete with windscreen.		
FLAPS:		
A. Neoprene anti-sail, anti-splash bolted to a permanent aluminum mount .375" x proper width bracket.		
B. Bracket and flap shall be sized and mounted so not to exceed 22° Federal Regulation.		
MUD GUARDS:		
A. .375" aluminum of proper size permanently attached in front of rear wheels.		
GRAB HANDLES:		
A. Dual .75" diameter minimum aluminum, full length left and right side mounted in front.		
LADDERS: (Slide-in type)		
A. 1¾" x 12" wide raised Alcoa aluminum ventilated diamond back or approved equivalent ladders (slip resistant requirements of Federal Specification RR-G-1602-load rated .745		

lbs/ft).		
B. Ladders shall be mounted on both <u>left side</u> and <u>right side</u> as low as practical for slide-in style.		
C. A wedge latch shall be provided to secure ladders horizontally with body while vehicle is in transit. Slide-in roll pins are not acceptable.		
D. Down position of ladders shall be 90° vertical of body and shall not interfere with other apparatus on vehicle.		
LIGHTING:		
A. All LED lighting shall be centrally grounded in a common junction box.		
B. All wiring to shock mounted marker lights shall be 14/2 conductor type "gpt" and include a sealed two (2) pin quick-connector.		
C. All quick-plug connections shall be treated with electrical grease at time of installation.		
D. All wiring shall be of the multi-conductor harness type securely attached and concealed.		
E. Rubber grommets shall be used where wires pass through metal.		
F. All lighting shall be LED and incorporate Lexan reflective or Polycarbonate lenses.		
G. There shall be four (4) rear body post lights. A minimum of 12 square inch oval amber lights recessed and mounted in each rear corner post. Lights shall be a Whelen Model or approved equivalent and shall consist of 500 Series Lighthouse/01-0664003AO, grommet mount kit/5Grommet, 2 pins and connector kit-waterproof (Deutsch)/W444D, 2 sockets & connector kit-waterproof (Deutsch)/W446D, four (4) of each of the components listed above shall be installed for each vehicle in the bid package and lights shall be programmed to double pulse flash.		
H. Lights shall be completely sealed and shock mounted and wired into separate light systems.		
I. Lights shall be mounted as far apart as possible and provide a criss-cross pattern. Left top to right bottom and right top to left bottom. Exact location shall be determined by contacting the NJTA Inspector prior to installation.		
J. All wiring shall be sealed and routed to prevent damage.		
K. All wiring shall terminate in a high-impact plastic junction box.		
L. Two (2) Trucklite Model # 44022R, 4" round red LED lights shall be installed in the upper portion of the tailgate (one on each side). Exact location shall be determined by contacting NJTA Inspector prior to installation.		
PAINTING:		
A. Body shall be completely acid cleaned.		
B. No type of coating or sealer shall be used on any stainless steel panels or extrusions.		
C. All sub frame and steel reinforcements parts shall be primed and painted the same color as chassis frame unless otherwise specified.		
TAILGATE CONTROL:		
A. Tailgate shall be operated from the left front corner of dump body.		
B. Control rods shall be attached to rear latches via connecting links and include locking adjustments.		
C. Connecting links shall be routed through body cross members and not protrude below body side rail.		
D. All linkage and latch components shall be stainless steel.		
E. Control handle shall be steel construction.		
F. All grease fittings throughout construction shall include dust covers.		
SPILL PLATES:		
A. .1875" 5454H32 spill plates shall be bolted to inside of tailgate.		
B. Spill plates shall be from top to just above floor/side radius and wide enough to seal off material flow when tailgate is resting against spreader spill plate.		
REAR BOLT ON ALUMINUM APRON:		
A. Dump body shall include a 1/4" x 8" x 96" apron.		
B. Apron shall be attached utilizing existing spreader mount at each end and two (2)		

stainless steel bolts and nylon lock nuts equally spaced from center out on the long members.		
C. Apron shall be mounted to the body at approximately a 30° taper and include underside reinforcement at each long member termination point.		
D. Apron shall be interchangeable with tailgate spreader.		
E. Welding of apron to body shall not be acceptable.		
CONSPICUITY ENHANCEMENT:		
A. Each dump body rubrail and rear shall include 2" wide conspicuity enhancement.		
B. The enhancement shall be alternating red and white stripes.		
C. Enhancement shall provide reflection even in daylight hours.		
D. Conspicuity tape shall have twelve (12) different patterns of micro-prisms for maximum visibility.		
E. The reflective system shall be impervious to ultra violet radiation via internal pigmentation with acrylic layer protection.		
F. Conspicuity tape shall withstand all weather conditions and repeated washing and meet all FMVSS 108 requirements.		
G. 1" wide stripes shall be provided on each tarp rail.		
HOIST:		
A. Body and hoist shall be compatible in design, build, and installer.		
B. Hoist shall be NTEA rated and certified Type V, Class 50.		
C. A dash mounted OEM integrated and labeled "body up" warning light, activated by a NEMA 12 switch device shall be supplied.		
D. Unit shall be a double acting, under body subframe type using a single rod type cylinder.		
E. The hydraulic cylinder shall have a built-in dual by-pass when cylinder is completely extended or retracted.		
F. All pivot points shall include grease fittings with protective dust covers.		
G. All bolts throughout the hoist assembly shall be grade 8 minimum and have self-locking nuts.		
H. All grease fittings shall be designed and angled appropriately in order to be accessible to mechanics for servicing.		
CYLINDER:		
A. Double acting single stage with internal poppet with field replaceable rod packing design.		
B. Minimum 3" nitro bar 25" stroke piston rod.		
C. Piston rod with stroke to provide a dumping angle of 55°.		
D. Minimum of (2) two piston rings and one (1) piston seal.		
E. Cylinder tested to 2,500 psi, 25" stroke, and minimum of 88,000 lbs of thrust.		
F. A dump body safety prop shall be provided and located for easy access.		
G. Four (4) pairs of shop service body wedge style props shall be supplied with this bid package to facilitate body lift cylinder removal.		
SUBFRAME:		
A. A 1" thick x 3" wide sub frame of sixty (60) durometer extruded rubber shall be attached to the body long sill.		
CONSTRUCTION:		
A. All components (side rail, cross tube assembly, rear hinge assembly, nest assembly, etc) shall be computerized flame burned and welded into the desired configurations.		
B. All welding shall be certified.		
C. Body and hoist shall be designed and built by same manufacturer.		

**SPECIFICATIONS: CHS-2011
CENTRAL HYDRAULIC SYSTEM**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

GENERAL:	COMPLY	
	YES	NO
A. The system shall provide hydraulic fluid to operate the dump body hoist cylinders, snow plow hydraulic cylinders, and hydraulically operated material spreader.		
B. The hydraulic system shall be capable of running three (3) or more hydraulic functions simultaneously without inhibiting the action of the other.		
C. Fluid loss protection system shall be accomplished by means of a level sensor in hydraulic tank.		
D. The complete hydraulic system including cylinders, motors, fittings, valves, hoses, etc shall conform to the highest quality of commercial hydraulic installation standards of the following organizations: ASME, ASTM, AISI, API, FPS, ICC, ISO, JIC, MISS, NFPA, NEMA, SAE, and USASI.		
E. The hydraulic system pressure and flow requirements shall be compatible with the operating rpm ranges of the trucks engine.		
F. Bidder shall submit with bid, complete hydraulic schematic including all components with manufacturer's names and model numbers including operational specifications.		
G. The successful bidder shall be responsible to demonstrate at the NJTA facilities the complete functional and performance capabilities of the hydraulic system and all affected components.		
HYDRAULIC PUMP AND PTO:		
A. The hydraulic pump shall be an axial piston pressure and flow compensated load-sensing type.		
B. The pump shall have a displacement of no less than 4 cubic inches per revolution at maximum stroke to deliver no less than 20 @ 1000 engine rpm.		
C. The pump shall have a minimum 1½" suction line and a minimum ½" control drain line plumbed directly back to the reservoir.		
D. The pump shall be rated for no less than 3600 psi and no less than 3000 psi continuous.		
E. A Chelsea 277 series or approved equivalent hot shift PTO shall be mounted to the transmission shall drive the pump.		
SHUT DOWN SYSTEM:		
A. The system shall be designed so that when the float contacts close, the PTO will disengage and stop pump flow.		
B. An OEM incorporated enunciator in the cab shall alert driver that the PTO has been disengaged.		
C. Located in the manifold enclosure shall be an override switch wired to de-		

energize the shut down system to facilitate diagnostics and equipment storage.		
D. The shutdown system shall include an indicator light mounted in the dash and shall be clearly identified.		
RESERVOIR/ VALVE ENCLOSURE:		
A. The hydraulic reservoir shall be of sufficient capacity to provide the required hydraulic fluid reserve and cooling capacities.		
B. The hydraulic reservoir shall be constructed of at least 7-gauge stainless steel and be internally baffled.		
C. Mounting bracket shall be designed and supplied by the reservoir supplier.		
D. Mounting system should allow for a 1" frame clearance for frame obstructions.		
E. Tank shall be mounted in a manner as to not transmit any truck torsional loads through the tank.		
F. The enclosure shall completely cover valves and components. Installation of permanent weather-stripping shall be provided where necessary to eliminate moisture/debris from entering valve area and to reduce metal to metal vibration and noise.		
G. The enclosure lid shall be removable by one person without the use of tools.		
H. All valve fittings, hose ends, filter, filler breather, sending units, and any electrical connections shall be protected by enclosure cover.		
I. The hydraulic pressure gauge shall be located in the protective enclosure.		
J. The reservoir supplier shall provide all valve fittings (JIC connections) and plumb the return line from the valve to the filter.		
K. The cover shall protect from both road and pressure washer spray.		
L. The directional control valve must be easily accessible from all six (6) sides without the use of tools.		
M. Hose exit and entrance shall allow for components to be mounted adjacent to the enclosure.		
N. A 2" full flow brass ball valve shall be plumbed at the suction port of the tank and safety wired in the "open" position.		
O. A low oil/high temperature sending unit shall be mounted in the reservoir (wiring to the sensor on the reservoir shall be silicone sealed preventing water intrusion) and include a warning light mounted into dash.		
FILTER:		
A. Hydraulic oil filter shall be mounted in the reservoir.		
B. Hydraulic filter shall be a 16-micron absolute and rated for no less than 60 gpm.		
C. A warning light shall be OEM incorporated and mounted in the cab and wired to the electrical indicator.		
TRI-PORT HYDRAULIC TEST FIXTURE:		
A. The triple function test port shall be installed in main pressure line between pump discharge and pressure inlet to the valve enclosure to monitor hydraulic flow, pressure (psi) and hydraulic temperature.		
B. A total of three (3) diagnostic tools shall be supplied upon delivery.		
HYDRAULIC CONTROL VALVE:		
A. The hydraulic valve shall be of modular manifold design.		
B. Each hydraulic function shall require an individual manifold stacked together to form the manifold base.		
C. The manifold base shall consist of an inlet section with inlet porting, outlet porting, and load sense porting.		
D. There shall be a main system relief in the inlet section to protect the system from high pressure in case the pump compensator fails.		
E. The dump body manifold shall be stacked next to the inlet section, and capable of 40 gpm with porting.		
F. The hydraulic control valves shall be pulse-width modulated and proportionally controlled.		

G. Each hydraulic valve segment may be individually mounted to the manifold base assembly and be serviceable without removing any hydraulic hoses or any other hydraulic valve segments.		
H. All segments shall have heavy-duty continuous duty coils. Connections shall have LED connectors.		
I. All coils shall operate at 12 VDC and require a maximum of 1400 mille-amps.		
J. Each segment shall be equipped with a manual override.		
K. The dump body segment shall be rated a minimum of 40 gpm, with all other segments rated at a minimum of 20 gpm.		
L. If a double acting hoist is utilized, the dump body segment shall be equipped with a down side relief to protect the body down function. This relief shall be set to the hoist manufacturer's specifications.		
M. The valves shall be arranged as follows: <ul style="list-style-type: none"> • Hoist.....4-way with 500 psi down side work port relief valve • Plow Lift.....4-way • Plow Counterbalance • Plow Angle.....4-way • Auger.....4-way for reversing auger • Spinner.....2-way 		
N. A laminated schematic of all hydraulic valves and all electric circuits shall be attached to the inside of the valve enclosure cover.		
CONTROL:		
A. The control center must be an integral center for controlling all hydraulic functions including all automated salt controls.		
B. The center must have changeable nomenclature and be fully backlit with solid state LED's.		
C. The unit must be ground speed oriented and OEM incorporated (splicing connections shall not be acceptable) valve control connection, and main power OEM incorporated connection.		
D. Four (4) solid-state warning lights illuminated in red for: oil level, high temp, bed up, and filter fault shall be OEM incorporated and installed into dash.		
E. An illustration as to which mode position summer/winter key switch shall be supplied in the control center for variable height adjustments.		
F. The center must also be supplied with color-coded wiring throughout.		
VALVE CONTROLS:		
A. The valve control in the control center for dump body shall be a fully proportional pulse width modulating controller with spring return to neutral and center safety lock.		
B. The valve control in the control center for snow plow shall be dual axis spring return to neutral center safety lock for plow raise/lower and plow angle.		
SPREADER CONTROL CONSOLE:		
A. The electronic spreader control shall be designed for precise open loop control of granular material.		
B. The spreader control shall regulate the auger and spinner speeds.		
C. There shall be two (2) individual detented knobs providing proportional control from closed to fully open on the control valve of the auger and spinner.		
D. Front face panel shall have blast mode.		
E. The unit must be protected from reverse polarity as well as over-voltage protected.		
F. The unit must provide operational modes for manual or open loop (ground speed only).		
HYDRAULIC LINES AND PLUMBING:		
A. All hydraulic lines and plumbing shall be of sufficient capacity so as not to create heat or turbulence within hydraulic system.		
B. Suction line between reservoir and pump shall be a minimum of 1½" I.D. with a minimum SAE 100-R4 rating and shall be secured on both ends via heavy duty banding		

straps.		
C. All pressure hoses, including signal sense to pump shall have swivel fittings on both ends and have a minimum SAE 100-R2 rating.		
D. All hydraulic hoses shall be installed with the appropriate fittings, where necessary to alleviate sharp hose angles.		
E. Return lines and case drain shall have minimum SAE 100-R1 rating.		
F. Hydraulic lines shall be routed to minimize interference with equipment and chassis components requiring periodic servicing.		
G. Support brackets shall be provided where appropriate to protect lines from damage by abrasion, cutting or impact.		
H. Hoses shall not be routed near exhaust manifolds pipes, bolts, sharp edges, and exhaust system to prevent wear, fatigue, or fire.		
I. Pipe fittings are not acceptable in any high-pressure line.		
J. Maximum distance between support clamps on all hydraulic lines shall be 12". Plastic ties shall not be acceptable.		
K. Hydraulic hose abrasion protection shall be used, a sleeve or coil wrap, where needed. Plastic wire loom shall not be acceptable.		
PLOW COUNTERBALANCE VALVE:		
A. The counterbalance valve shall be integrated into the hydraulic valve assembly to take some of the plows weight off the blade and onto the front of the truck.		
B. The valve shall work by supplying pressure to the lift cylinder to partially lift the plow.		
C. The same valve works for both single acting and double acting plow lift cylinders. Unused ports shall be plugged.		
D. Electrical switching shall be provided to automatically turn the valve off in order to hold the plow in the raised position.		
E. If the counterbalance valve is not turned off, the plow shall drift down after it is raised.		
F. Float lift pressure shall need to be adjusted to insure that the plow drifts down at the correct speed.		
G. The valve shall use a pressure reducing/relieving valve to control the float lift pressure.		
H. Two (2) solenoid valves wired together turn the valve off and on.		
I. One (1) solenoid valve opens the inlet of the pressure reducing valve to the pump.		
J. The other solenoid valve opens the outlet of the pressure reducing/relieving valve to the lift port.		
K. Oil flowing in and out of the lift port shall be restricted with an orifice.		
L. The manufacturer of the hydraulic system shall be a NTEA MVP certified member.		
BODY HOIST RAISE-HOLD-LOWER SECTION:		
A. The section shall provide system flow to the body hoist for raising and lowering.		
B. The body raise-hold-lower circuit shall contain a protection valve to protect the hoist cylinder from high pressure shock loading and to facilitate the capability of manual controlled lowering of the body in an emergency situation.		
C. The solenoid valves shall have manual override capabilities.		
D. Pressure settings shall be determined by the recommendations of the manufacturer of the supplied hoist cylinder.		
E. A normally closed body limiting switch shall be installed in the hoist up circuit and facilitate adjustment from 10' 2" to 13' 6" maximum body height.		
F. The switch shall be activated for spreading operations so the raised body height shall not exceed a maximum height as stated above.		
G. The spreader control panel located on the pedestal in cab shall have a removable switch key labeled to indicate mode key position "winter" or "summer".		
H. The "summer" position shall allow the body to dump to the full dump		

height.		
I. The switch shall function in a temperature range of between -40° to +170° Fahrenheit.		
SPREADER CONTROL SYSTEM:		
A. The spreader control system shall be an open loop automatic ground speed oriented with manual control capability.		
B. The spreader shall function in the automatic mode directly relating vehicle speed to a variable preset amount of material so that regardless of the vehicle forward or reverse speed the preset pounds of material per linear mile shall not vary.		
C. The speed sensor shall be an inline frequency type.		
D. The electric control panel shall be capable of interpreting electronic speedometer signals; either proximity type, AC type or Hall Effect type.		
E. The blast mode shall function in the manual or auto mode.		
F. The system shall return to the manual or auto preset rate upon deactivation of the blast mode.		
G. The blast mode shall only affect the auger speed. The spinner-spread pattern shall not change in the blast mode.		
SPREAD CONTROL PANEL & HARNESS:		
A. The control panel shall be self-contained and sized for pedestal mounting (between driver and passenger seat).		
B. All switches shall be back-lit illuminated, permanently labeled, color-coded, and located in the panel for the safest possible operation.		
C. A momentary action switch shall be used for reversing the auger spreader (the spinner shall stop when the auger is reversed).		
D. The spreader control shall include a minimum nine (9) position dial control for auger, a minimum nine (9) position dial for control spinner, blast button, and spreader auto/manual and on/off.		
E. The control shall contain adjustments for minimum and maximum of each auger and spinner circuit and complete PWM frequency tuning.		
F. The spreader circuit shall have a common connection.		
G. The spreader control shall operate in either a manual or automatic mode and function with a manual or electronic speedometer.		
H. All speed rates shall be programmed externally but coded to prevent unauthorized adjustments.		
I. The spreader blast function shall be externally adjustable from 0-10 seconds after the button is released (set for 10 seconds).		
J. All control circuits shall be fused and shall be suppressed.		
K. The wiring harnesses must be tested before installation.		
L. The wire harnesses shall be resistant to oil and abrasion.		
JOYSTICKS FOR PLOW & BODY FUNCTIONS:		
A. The operator's control panel shall incorporate two (2) separate electrical joysticks.		
B. The dual joysticks shall be remotely mounted to right side of operator's seat in an accessible position to ensure easy operator control (exact location, height, and angle shall be determined by contacting the NJTA Inspector prior to installation).		
C. The joystick for plowing functions shall be of the rocker grip type. The joysticks for the body and plow functions shall both contain a dead man switch capable of de-energizing the body hydraulics upon handle release.		
ANNUNCIATOR PANEL:		
A. An annunciator panel shall be provided in the dash switch cluster.		
B. The panel shall have the following annunciators:		

<ul style="list-style-type: none"> • Low Salt-shall light when the spreader auger pressure switch indicates falling pressure in auger hydraulic circuit. • Oil Level -shall light when oil level in reservoir drops to an unsafe level. • Filter Fault-shall light when the hydraulic filter is clogged. • Bed Up-shall light when the dump body is in the raised position. 		
IDENTIFICATION, MANUALS, ETC: (In Paper Format):		
<p>A. The following items below shall be supplied upon delivery for each vehicle in this bid package:</p> <ul style="list-style-type: none"> • Complete and legible designation of each functional control component indicating function. • Hydraulic schematic and electrical wiring diagram (for hydraulic system) and maintenances requirements. • Complete parts list with necessary ordering information. Parts list shall include cross reference to schematic component numbers and manufacturer's numbers. • Complete written operation of the hydraulic system. • Complete written maintenance and troubleshooting of hydraulic system. • Complete written calibration methods of spreader for automatic operations. 		

**SPECIFICATIONS: TS-2011
TAILGATE SPREADER**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

GENERAL:	COMPLY	
	YES	NO
A. Hydraulically operated, cab controlled under-the-tailgate type material spreader.		
B. The spreader shall not interfere in any manner with the normal operation and usage of the dump body, tailgate or pintle hook.		
C. Spreader shall have a single self-leveling spinner assembly that shall be mounted on the left side of the hopper.		
D. All bolts, pins and fasteners shall be high-quality stainless steel .		
E. The spreader shall be constructed of 304 stainless steel.		
SPREADER MOUNTING:		
A. The spreader shall be securely mounted to the sides of the dump body with quick-disconnect brackets and hanger bars.		
B. The hanger bars shall be attached to the sides of the dump body with special clevis pinned connections (John Deere # 230044-WNL) or approved equivalent and bolted to the spreader by means of ½" carriage bolts and self-locking nuts.		
C. Drilled bolts shall not be acceptable.		
D. Hanger bar holes shall be drilled on center 20" apart from each other.		
E. Holes shall be drilled in each side of the spreader box to allow for pick up hooks to ease lifting and mounting of the spreader.		
F. Holes shall be approximately ¾" in diameter and shall be drilled in each side panel of the spreader equidistantly to facilitate level installation.		
G. Holes and bolts shall in no way interfere with the normal operation or compromise the structural integrity of the spreader.		
H. Mounting shall provide for universal and adaptability on all trucks listed in this bid package.		
HOPPER:		
A. The hopper shall be constructed with 7-gauge stainless steel end plates.		
B. The end plates shall be continuously welded to a 10-gauge stainless steel trough.		
C. The hopper shall have a 10-gauge stainless steel three-point hinged bottom.		
D. With bottom of hopper opened, the entire length of the auger shall be exposed for cleaning.		
E. The hinged bottom shall be held in place by two (2) heavy-duty cam locks with a lift handle.		
F. The hopper shall have an anti-flow cover over the discharge opening.		
G. The cover shall be removable without tools.		
H. The hopper shall have 10-gauge stainless steel cover/back plate.		

I. The plate shall be a one-piece hinged integral part of the hopper and shall be raised when spreading and lowered when dumping.		
J. The cover plate shall be capable of being locked in either the raised or lowered position by two (2) simple captivated latches.		
K. The auger drive mechanism shall be protected by a stainless cover, which shall be hinged at two (2) points and secured by a single latch.		
L. The discharge port shall be located at the extreme street side end of hopper.		
M. There shall be no open gap between front edge of spreader hopper and the rear dump body sill.		
N. If a gap exists between the trough lip and the dump body rear cross-member, a 'spill board' of about 3/16" x 2" steel shall be welded to the forward lip of the spreader to form a seal.		
O. The spreader shall fit the truck body <u>exactly</u> (no gaps) in order to prevent salt seepage in any area other than the discharge port.		
P. Tailgate shields shall be provided to prevent material spillage at the ends of the spreader.		
Q. A quick-connect hydraulic lock bar shall be provided for safety that forces the operator to disconnect, cutting off power to the auger before opening the stainless steel cover.		
AUGER:		
A. The auger shall be a single 6" nominal interrupted flight type auger.		
B. The flights shall be designed, spaced, angularity positioned, and graduated to provide an accurate and equalized amount of material to the spinner.		
C. The flights shall be 3/8" thick and patterned in three (3) zones.		
D. The flights shall be continuously welded to a 2" schedule 40 ATSM pipe.		
E. The pipe shall be supported by two (2) 1 1/4" steel shaft ends.		
F. The auger bearings shall be precision grade, self-aligning, sealed, and dust-proof with lube fittings.		
G. Power shall be provided by a direct-coupled hydraulic motor.		
H. The hydraulic motor shall mount directly to the auger pipe by non-corrosive sleeve and a 1/2" stainless steel grade 5 bolt.		
I. The motor shall be mounted to the hopper end plate.		
J. The auger shall rotate in a counter-clockwise direction as viewed from the left side of the truck.		
K. The motor shall be reversible.		
SPINNER ASSEMBLY:		
A. The spinner assembly shall consist of an 18" diameter disc and six (6) cupped vanes with a 4-bolt pattern formed into a single polyurethane unit, resulting in a flat trajectory and a uniform spreading pattern from 4' to 60'.		
B. The spinner assembly shall be mounted on the left side and shall be adjustable allowing for variable spreading patterns left, center or right.		
C. This shall be accomplished by sliding the hinged frame sideways on the shaft so the point where the material hits the spinner disc is varied.		
D. A stainless steel spinner shield shall be provided and installed to prevent material from striking the truck.		
E. A spinner guard shall be provided and installed.		
F. The guard shall consist of dual rings, upper and lower positioned to overlies the outer periphery of the spinner.		
G. The upper ring shall have an expanded metal cover attached.		
H. The guard shall attach directly to the spinner assembly.		
I. The spinner shall be directly driven by a reversible high-torque hydraulic motor that shall be capable of spreading 60' within the motors rated maximum rpm.		
J. The spinner motor shall be capable of rotating the spinner disc at a minimum of 1,000 rpm's at the highest spinner setting. NO EXCEPTIONS		
K. The spinner assembly shall be mounted to spreader by means of a quick- disconnect, stainless steel rod, clips, 'T' bolts for rapid removal and shall be to the outer side or behind		

the spinner disc or extend beyond the side of the dump truck.		
L. All necessary brackets and mounting supports shall be furnished.		
M. The spinner standard leveling mechanism shall have ¼" chain.		
N. The chain length shall be of such a length to keep the spinner level.		
O. The clearance of any spreader appendage to pavement with body raised to its maximum angle shall be 8".		
SPREADER LIGHT:		
A. One (1) J.W. Speaker Round Marine Model 6700 sealed, rubber shock mounted light shall be attached to the underside of the body via a dual swivel-mounting bracket. NO EXCEPTIONS		
B. The assembly shall be positioned to illuminate the spreader operation.		
C. Wiring shall be "SO" two (2) conductor quick-disconnect weather pack connector, 16-gauge and be impervious to weather and salt.		
D. A rocker type back-lit spreader light switch shall be provided in the cab within easy reach of the operator for on/off operation.		
E. Wired key off, spreader light function shall not be acceptable.		
F. Wires going into spinner light fixture shall be sealed with silicone.		
G. All auxiliary lighting shall be routed to a common cab switch panel and shall meet D.O.T. specifications.		
RATE OF APPLICATION:		
A. The spreader shall be capable of spreading salt at an operating range (rate) from 0-1275 lbs per mile divided between auger settings.		
SPREADER CONTROL:		
A. The operation of the spreader shall be controlled from the cab by the control console covered in the Central Hydraulic System Specifications: CHS-2011.		
B. The spreader shall be controlled by an open loop automatic ground speed oriented system.		
C. The automatic spreader control system shall allow dispensing requirements of 100 lbs per lane mile to 425 lbs per lane mile and up to three (3) lanes at one time, independent of vehicle road speed.		
D. No hydraulic lines shall enter cab of truck.		
SPREAD PATTERN:		
A. The spreader, when operating at capacity, shall be able to spread 60', i.e., 30' either side of spinner disc.		
B. The spread pattern and rate shall be controlled in any range from 0 to maximum.		
C. The spreader shall be capable by means of a quick-change adjustment device on spinner assembly to apportion material on the spinner and spread material evenly: <ul style="list-style-type: none"> • Spread all to the left of truck nothing behind or to the right of truck. • Spread to the left and behind truck, nothing to right of truck. • Spread to the right and behind truck, nothing to left of truck. 		
GREASE FITTINGS:		
A. Grease fittings shall be clearly indicated.		
B. If grease fittings are covered, directions by use of arrows or stenciled letters shall be given.		
C. Extensions shall be provided when grease fittings are not readily accessible.		
PAINT:		
A. None.		
MANUALS:		
A. One (1) of each of the following manuals shall be supplied with each spreader ordered in this bid package:		

<ul style="list-style-type: none"> • Parts • Hydraulic 		
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**SPECIFICATIONS: RL
ROTATOR LIGHTS**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

ROTATOR LIGHTS-BEHIND THE CAB MOUNTING:	COMPLY	
	YES	NO
A. Class I Arrow Model # 580-00-1 LED rotator warning lights or approved equivalent.		
B. Lights (one on each side) shall be attached to the light bracket assembly via 2" o.d. square x .1875 aluminum crossbar.		
C. Crossbar tubing shall be gusseted to channel uprights and provide an approximate 9½' wide, outside to outside revolving light setting, but shall not be wider than the exterior mirrors.		
D. Bottom of lightbar shall be at least 1" higher than the cab roof.		
E. Light assembly shall have ¼" aluminum mounting plates for each revolving light and all wiring to the revolving lights shall be routed <u>inside</u> tube assembly and through mounting base via type "SO" cord. (Wiring shall be hard-wired—plugs shall not be acceptable).		
F. All wiring shall be sized to sufficiently handle current demands of all lighting.		
G. All wiring shall be connected using two (2) conductor weather pack connectors.		
H. Lights shall be grounded to truck frame.		
I. Light assembly shall be securely attached to chassis frame rail via a minimum of two (2) 4" structural 6061-T6 aluminum channels with aluminum braces, cross braces and supports adequate to prevent vibration and to handle severe service.		
J. Structure must be built to keep vibration at a minimum.		
K. Entire assembly shall use stainless steel fasteners throughout.		
L. Lights shall be wired to a cab mounted switch (determined by contacting NJTA Inspector prior to installation) with amp protected circuit.		

**SPECIFICATIONS: SPL-2011
SNOW PLOW LIGHTS**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

GENERAL:	COMPLY	
	YES	NO
A. Snow plow lights shall be Meyer Saber Light Model # 07223 or approved equivalent.		
B. Snow plow lights shall provide an alternate high/low beam light source when snow plow is attached.		
C. Mounting shall be shock-proof and vibration resistant.		
D. A three point, 2" x .250" aluminum bracket system shall be provided to accommodate high profile snow plows.		
E. Lights shall include halogen bulbs, wrap around park/turn lamps and be wired into cab mounted plow light/head light selector switch.		
F. When factory selector switch is provided it shall be used.		
G. Power supply for these additional lights shall be from the existing chassis high/low beam, park and turn signal circuits.		
H. Plow light housing shall be of polycarbonate material.		
I. All wiring shall be routed to prevent damage (no splices) and be attached at firewall to a seven (7) terminal connection point for ease of hook up and troubleshooting.		
J. There shall be <u>no</u> splices (must have continuous feed from lights to firewall).		
K. Mounting shall be on truck fenders/hood.		
L. Original chassis high beam dash mounted indicator shall function when plow lights are in high beam mode.		
M. When factory switch is not present a bulb adapter plug kit and continuous harness shall be used and all terminations shall be inside of chassis cab. All wiring connections shall be weather tight.		

SPECIFICATIONS: SPH-2011
SNOW PLOW HITCH

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

GENERAL:	COMPLY	
	YES	NO
A. Hitch shall be engineered, designed, and built by a recognized manufacturer.		
B. The hitch shall be designed for severe service and mounting on all heavy-duty conventional rear-wheel drive trucks.		
C. Hitch shall be designed to provide a minimum amount of front overhang.		
D. The low profile hitch design shall allow the cab hood to tilt fully forward a sufficient and safe amount to allow for proper engine access.		
E. The heavy-duty front frame hitch shall be designed to transmit plowing forces directly to the truck frame side rails with custom built side plates to fit the trucks specified in this bid package.		
FEATURES:		
A. The side plates are custom fitted 5/8" minimum steel plate of proper length and construction for heavy-duty service.		
B. The custom fitted side plates shall provide adequate clearance for steering mechanism and spring suspensions.		
C. The front section shall consist of the lifting frame, push plate, reinforcements, braces, and mounting brackets.		
D. The lifting frame vertical angles and top angle shall be 1/2" x 4" x 3" gusseted for extra strength.		
E. All lifting device pins shall be 1" diameter H.R.S.		
F. Ram support angle shall be a gusseted 1/2" x 4" x 6" angle with 1/2" thick steel ram connection ears welded and so designed to accept a front bumper constructed of 8" @ 13.75# channel.		
G. The lower push plate main member is 10" @ 25 lb/ft. car channel, reinforced with a 3/8" x 3" x 3" angle.		
H. The plow connecting ears shall have three (3) equally spaced height attaching holes fabricated from (2) 3/4" bars capable of adjusting pin ground height to approximately 15", 18", and 21" center of mounting holes.		
I. Plow connection pins are 1 1/4" diameter-two (2) shall be supplied with chain retainers.		
J. Push centers shall match existing Authority snow plows with 21" center.		
K. The entire front assembly, lift frame, and push plate shall be further supported with four (4) braces of 2" schedule 80 pipe with cast steel end fittings on each end.		
L. The specified truck bumper shall be cut and attached to either side of hitch side plates and reinforced as required using custom made bolt-on plates for easy		

replacement. Welding shall not be acceptable.		
M. The top of the bumper and front of grille shall have a removable bustin type plate deck mounted, full width.		
N. The bumper shall have four (4) 5/16" holes drilled for placement of license plates on driver's side.		
O. The plow hoist cylinder shall be of premium grade and shall be a double acting ram of not less than 3" bore x 10" stroke.		
P. The cylinder shall be capable of 14,000 lbs. of thrust @ 2,000 psi and 16,000 lbs. of bursting pressure @ 2,000 psi.		
FOLDING LIFT BEAM:		
A. The folding lift beam shall consist of (2) ½" x 3" bars, secured by a ¼" thick cap and (2) ½" x 3" ears assembled so the beam may fold.		
B. Beam shall be required to allow full tilting of the truck hood, without any interference NO EXCEPTIONS.		
C. Lift arm shall fold out of the way when not in plowing use.		
D. The pivot bolt shall be 1" diameter and be a minimum grade 8 bolt.		
E. In the folded position, the lift cylinder shall be so positioned that if accidentally extended, shall not cause any damage to the hitch or truck.		
F. A banjo chain holder shall be installed on hitch.		
G. The plow hitch shall be mounted as close to grille as possible.		
H. If frame length must be reduced, vendor shall remove portion of frame in such a way not to affect the integrity of frame strength.		
I. Two (2) flexible 36" long orange bumper sight rods shall be mounted on bumper, one (1) on each corner.		
J. Tow hooks shall be mounted on hitch using original equipment from chassis manufacturer.		
PAINT:		
A. The hitch shall be painted with black enamel paint.		
MANUALS:		
A. One (1) complete set of parts manuals for hitch and hydraulic cylinder shall be supplied with each hitch ordered.		

**SPECIFICATIONS: SP7-2011
TRUCK SNOW PLOW**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID.

GENERAL:	COMPLY	
	YES	NO
A. The snow plow shall be an 11' x 42" power reversible "J" style type.		
B. The snow plow shall be new and of the latest design and be in current production at the time of the submission of bid.		
C. All standard and optional equipment shall be Original Equipment Manufacturers (OEM) items, when available. NO EXCEPTIONS.		
D. Bidders <u>must</u> submit with their bid, detailed/technical specifications of their snow plow being bid.		
MOLDBOARD:		
A. The moldboard shall be 42" high and 132" long formed in a "J" shaped blade. The radius shall be approximately 20" and the last 12" a minimum of a 6" radius.		
B. The moldboard shall be constructed with a minimum of 7-gauge steel paneled for additional strength.		
C. The top shall be reinforced at the top by a self-formed channel and the bottom with a one piece 4" x 4" x 3/8" structural angle.		
D. The cutting edge banking plate of 5/8" x 3" steel shall be welded and braced with a 1/2" x 2 1/2" gussets welded between each cutting edge bolt position.		
E. This structural triangle shall be constructed in order to have the cutting edge <u>flush</u> with the moldboard face to prevent snow build up on top of the cutting edge.		
F. A minimum of ten (10) full length vertical ribs shall reinforce the moldboard.		
G. The vertical rails shall be constructed of 1/2" x 3" formed steel continuously welded on both sides of edge to the moldboard sheet and secured at the top to the formed channel and to the structured angle at the bottom.		
H. Two (2) horizontal braces shall also reinforce the moldboard.		
I. The braces shall be constructed of 1/4" x 2" x 2" angle or 1/2" x 3" flat bar continuously welded on both sides to moldboard sheets.		
J. The lower rear cross angle shall be provided with a minimum of ten (10) brackets 3/4" thick welded on 88" hinge point centers for attachment to the table assembly at five (5) points with a minimum of 1" (72,000 lb) tensile strength pins.		
CUTTING EDGE:		
A. The cutting edge shall be fabricated from abrasion resistant steel with a Brinell Hardness of 250 minimum and 325 maximum.		
B. There shall be two (2) each of 1" thick x 8" wide x 66" long cutting edges.		

C. The cutting edges to be AASHO standard punched and be easily replaced.		
D. All mounting hardware shall be grade 8.		
TRIPPING MECHANISM:		
A. A minimum of five (5) heavy-duty extension springs shall be attached between the table and the moldboard.		
B. The spring materials must be ASTM-A229 oil tempered ½" wire, 4½" O.D. x 24 active coils with the end hooks cold formed to 90° right angles to each other.		
C. The spring force at 30.5" shall be a minimum of 1,050 lbs and allow 14" of stretch without deformation.		
D. These springs shall control the trip action so the plow will be held rigid for plowing but will trip automatically when coming in contact with any solid object and return automatically to the original plowing position when released.		
E. The trip springs shall be designed to have adjustable spring tension.		
F. Each spring shall be able to be adjusted individually by a threaded "J" hook or equivalent.		
G. A mechanical telescopic tripping post assembly constructed of a minimum of 1¼" x 2" inside bar, ¾" x 2¼" outside bare and reinforced with ¼" x 2" bars.		
H. The tripping post assembly shall be independent of the springs and must prevent the top of the moldboard from contacting the roof surface.		
I. Two (2) 1" diameter pins with a minimum tensile strength of 72,000 lbs shall connect tripping post to the moldboard and table.		
TABLE:		
A. The table shall be a circular arc design and be constructed of solid ¾" x 4" bars bent to a 29" outside radius with eleven (11) notches 1¼" deep x 1⅛" wide at the bottom and 1½" wide at the outer edge.		
B. The notches shall be sheared cut. Flame cutting to achieve curve and notches shall not be acceptable.		
C. The circular arcs shall be formed from the flat portion of a fabricated angle with a curved bar ½" x 4" welded in a vertical position along the inner radius.		
D. Circular arc portion shall be welded at each end with an overlap to structural angles measuring 4" x 4" x ½" that continues the length of the semicircle and joins to the front angle measuring 4" x 4" x ½".		
E. The joining of the semicircle to the front angle shall be reinforced on each side by ¼" thick triangular gussets with 4" turned up to form an angle.		
F. There shall also be two (2) parallel angles measuring 4" x 4" x ½" connecting the semicircle to the front angle and providing multiple hole attachment means for the side plates of the carrying device.		
G. The front of the table shall be provided with a minimum of ten (10) brackets ¾" thick welded on 88" hinge point centers for attachment to the moldboard assembly at five (5) points with a minimum of 1" 72,000 lb tensile strength pins.		
H. The front center of the table shall be designed for attachment to the "A" frame with a 1¼" diameter vertical pin with washers and cotter pins.		
LIFT CHAIN:		
A. The lift chain assembly shall include a zinc plated 7/16" proof coil chain, repair link, two (2) ½" anchor shackles and a 7/16" grab hook clevis.		
B. There shall be two (2) tabs welded on the table for attachment of the lift chain.		
PUSH FRAME:		
A. The push frame shall be constructed of two (2) 4" @ 13.8 lb ship		

channels with bracing and be in the form of an "A".		
B. The top and bottom of the push frame shall be ½" triangular shaped plate.		
C. Welded to the front of these triangular plates shall be a pair of ¾" x 3" steel brackets and between them a curved socket member shall be provided to relieve the pivot pin of thrust stress.		
D. The attachment pin at this point shall be a minimum of 1¼" diameter axle quality steel that shall engage with corresponding ears on the front angle of the semicircular frame.		
E. At the center of this box construction of plates and channels in the line of forward rotation shall be an assembly welded to form a continuous thrust beam.		
F. The first forward member to be a minimum of 4" @ 7.7 pound "I" beam bearing against the push ears in the front and extending to the rear to butt against a tubular telescopic member extending further to the rear and attach to a cross channel with a 1" bolt.		
G. Telescoping onto the tubular member shall be a sliding yoke having two (2) pair of ears at the front connecting to the hydraulic reversing cylinders to the rear of the sliding yoke.		
H. A latch part shall be incorporated which continues further to the rear and presses against a heavy duty latch spring measuring 5-7/16" O.D. x ¾" diameter spring wire with 9" of free travel.		
I. The spring shall be made of AISI 5160 hot rolled spring steel and shall be heat treated after cooling. Spring shall be closed and ground.		
J. The latch shall seat against a circular plate welded to the rear cross channel.		
K. Lubrication fittings shall be provided to allow ease of movement of slide assembly, which telescopes on the tubular member.		
L. A guide plate shall be welded to the rear of the top triangular plate to control the position of the yoke assembly and latch part.		
M. The guide plate shall also extend forward to be in a position above the circular arc angle to keep it engaged with the push frame to allow and limit the oscillation of the semicircle in relation to the push frame.		
N. The two (2) rear channels of the push frame shall be provided with a heavy-duty 1" thick cast steel adjustable ear for attachment of the push frame to the travel hitch with 1¼" diameter bolt. Ear spacing shall be 21". NO EXCEPTIONS		
HYDRAULIC REVERSING CYLINDERS:		
A. The hydraulic reversing mechanism shall consist of two (2) hydraulic cylinders with a minimum of 2½" diameter and 10" stroke.		
B. The cylinder piston rods shall be treated with a nitro steel process to assist in preventing corrosion.		
C. Chrome piston rods shall not be acceptable.		
D. Cylinders shall have ears on each end.		
E. The ears on the outer cylinder housing shall engage with the ears on the yoke in the push frame and the ears on the piston rods shall attach to corresponding ears on the front cross angle on the semicircle table.		
F. Hydraulic cylinders shall be positioned to unlatch the semicircle and angle the moldboard to the desired plowing position.		
G. The latching mechanism shall operate automatically and monitor the moldboard in any of eleven (11) positions from 35° right or left in 7° increments.		
H. High pressure hydraulic hose connections shall be made to each of the two (2) cylinders and extend to the rear terminating in male and female quick disconnect couplings. This will allow the hoses to be connected during storage.		

I. During operation, the hoses shall connect to the corresponding connections on the Authority trucks.		
MUSHROOM:		
A. The skid shoe assemblies must be of the hand adjustable type, enclosed and fully lubricated with replaceable chilled cast iron shoes "Mushroom" shaped of a minimum of 11" in diameter and 2½" thick.		
B. The design shall include an anti-flip top.		
C. The shoe housing to be constructed of 3" square tubing x 12" long and the shoe post to be constructed of 2½" square tubing x 11" long.		
D. The adjustment shall be accomplished by a threaded 1¼" diameter screw operated by a hand crank with rotating knob, which shall be self- locking and shall operate without the use of any tools. The adjusting screw shall be fully enclosed.		
LEVEL-LIFT ASSEMBLY:		
A. The level-lift assembly shall provide an automatic, mechanically activated mechanical control, which will hold a raised plow moldboard an equal distance from the ground to the bottom of the cutting edge.		
B. The level-lift mechanism will hold an equal elevation regardless of height raised above the road surface and regardless of moldboard plowing angle.		
C. The moldboard plowing angle must be able to be changed to any desired position, maintaining equal elevation without first lowering plow, changing plowing angle and then re-lifting.		
PLOW MARKERS:		
A. The snow plow shall be equipped with two (2) safety orange colored markers and constructed of high-density polyethylene measuring approximately 1¼" O.D. x 36" long.		
B. The snow plow markers shall be designed to fit snugly into the mounting in order to prevent flop over and keep the marker vertically erect but flexible.		
RUBBER BAFFLE:		
A. The snow plow shall be equipped with a ½" thick x 12" wide x 11' long rubber belting baffle.		
B. The baffle shall be bolted to top of moldboard with a ¼" x 2" x 11' steel keeper bar.		
MOLDBOARD SHOE:		
A. The snow plow shall be equipped with two (2) moldboard shoes.		
B. The moldboard shoe shall be constructed of cast steel and have a bearing wear surface of at least 75 square inches each.		
C. The moldboard shoes shall be attached directly behind the cutting edge and be designed to wear evenly with an 8" cutting edge.		
D. The moldboard shoes shall have two (2) 11/16" diameter bolt holes spaced on 12" centers for mounting to the snow plow.		
CURB BUMPER:		
A. The snow plow shall be equipped with two (2) curb shoes, one (1) right hand and one (1) left hand.		
B. The curb shoes shall be made of A36 steel, 5/8" thick x 6" wide x 14" long.		
C. The curb shoe to be designed to wrap around the edge of the snow plow moldboard at the cutting edge.		
D. The curb shoe shall have two (2) 11/16" square bolt holes for mounting.		
E. Curb shoes shall be installed on top of snow plow cutting edge.		
F. The center of the first bolt hole shall be 1½" from the flat square end of the shoe.		
G. The center of the second bolt hole shall be 3" from the center of the first bolt hole.		
H. Bolt holes shall be 1½" down from the top edge of the curb shoe.		
WELDING:		
A. All welds shall be continuous.		

B. All welding performed in the manufacturing of the snow plow shall		
be done by certified welders.		
C. The welding certification shall come from a recognized welding supply manufacturer and/or school.		
PAINT:		
A. All steel parts shall have the mill scale and oil removed by means of a high pressure chemical cleaner prior to painting.		
B. These surfaces shall be primed with a zinc rich, rust preventive primer.		
C. The finish paint shall be a high quality, high solid, polyurethane type enamel.		
D. All painting shall be done in conjunction with good commercial practices.		
E. All aluminum and stainless steel shall be left in its natural color:		
F. Paint color shall be DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent.		
G. Paint shall be supplied in a two-step process.		
H. Orange base coat and additional polyurethane overcoat.		

SPECIFICATIONS: 7PTC
7-POLE TRAILER CONNECTORS ON TRUCKS AND TRAILERS

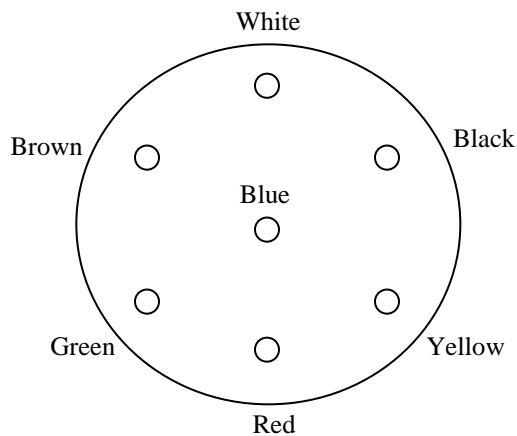
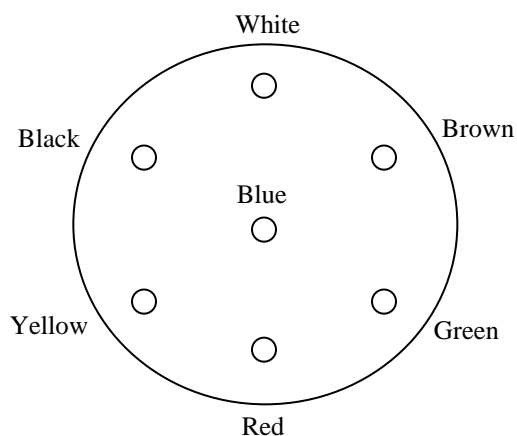
CONNECTOR MARKING COLOR

APPLICATION

WHITE.....	GROUND
BLACK.....	TAIL LIGHT
BROWN.....	TAIL LIGHT
YELLOW.....	LEFT TURN SIGNAL
GREEN.....	RIGHT TURN SIGNAL
RED.....	ELECTRIC BRAKE
BLUE.....	12-VOLT BATTERY
	WITH 30-AMP AUTOMATIC
	BIMETAL THERMAL RESET
	CIRCUIT PROTECTION.

SOCKET MARKINGS

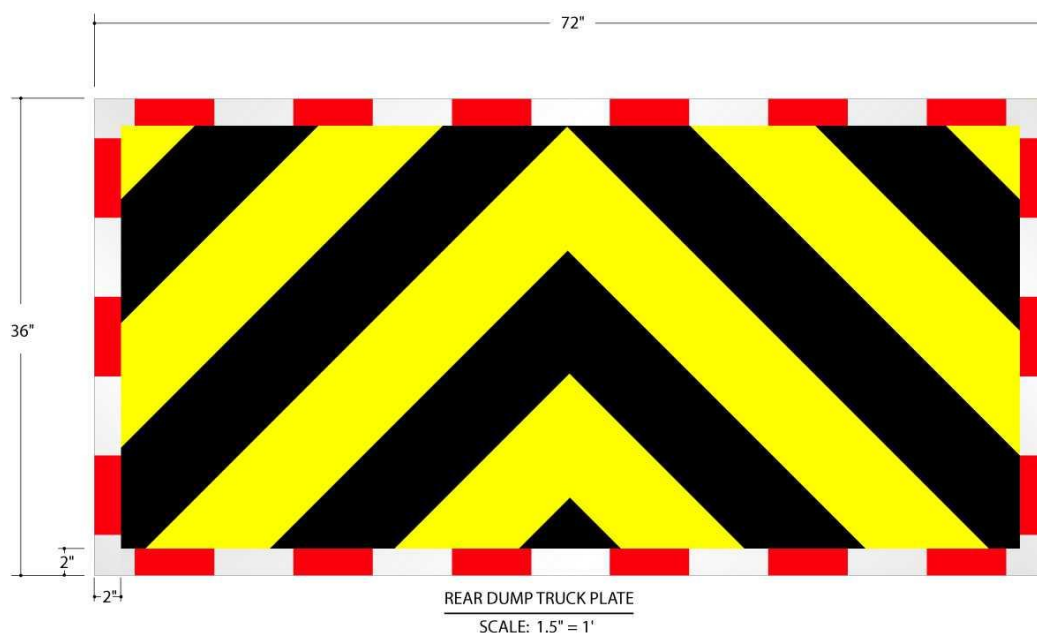
PLUG MARKINGS



SPECIFICATIONS: SKETCH “NL”

1. All stripes will be six (6) inches wide, forty-five (45) degrees from vertical.
 - a. The yellow stripes shall be Diamond Grade Fluorescent VIP Reflective Sheeting-3981, pressure sensitive.
 - b. The black stripes shall be Scotchcal 3650-12, pressure sensitive.

2. There shall be a Diamond Grade Conspicuity Marking 981-326, Red 6", White 6" both 2" high, surrounding the top, bottom, and both sides of the stripes, pressure sensitive.
3. A striping plate of $\frac{1}{8}$ " aluminum shall be used (unless otherwise specified) that shall be striped and riveted to tailgate. (Dimensions below are approximate).
4. The entire rear of the truck body shall be fully covered without covering any lights or accessories. Exact size of stripe plate shall be determined by contacting the NJTA Inspector prior to fabricating and mounting.
5. All materials shall be manufactured by and applied as approved by the Minnesota Mining Company (3M Company).



FAILURE TO COMPLETE ALL AREAS MAY RESULT IN REJECTION OF BID

UNIT INFORMATION FORM

(Must be submitted by vendor with bid documents)

I. TRUCK CHASSIS:

YEAR:_____ MAKE:_____ MODEL:_____

ENGINE MAKE:_____

MODEL:_____ CID:_____ HP:_____ @ _____ RPM

ALTERNATOR MAKE:_____ MODEL:_____

AMPS:_____

BATTERY VOLTS/AMPS:_____

C.C.A. @ O° F:_____

TRANSMISSION MAKE:_____

MODEL:_____

BACK-UP ALARM MAKE:_____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

II. DUMP BODY (ALUMINUM):

DESCRIPTION:_____

YEAR:_____ MAKE:_____ MODEL:_____

INSTALLER:_____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

III. DUMP BODY (STAINLESS STEEL):

DESCRIPTION:_____

YEAR:_____ MAKE:_____ MODEL:_____

INSTALLER:_____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT: _____
Name & Title

IV. HOIST:

YEAR: _____ MAKE: _____ MODEL: _____

CAPACITY: _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____
Name & Title

V. HYDRAULIC SYSTEM:

MAKE: _____

HYDRAULIC PUMP
MODEL: _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____ Name & Title

VI. TAILGATE SPREADER:

YEAR: _____ MAKE: _____ MODEL: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____
Name & Title

VII. ROTATOR LIGHTS:

YEAR: _____ MAKE: _____ MODEL: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

VIII. SNOW PLOW LIGHTS:

YEAR: _____ MAKE: _____ MODEL: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

IX. SNOW PLOW:

MAKE: _____ MODEL: _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

X. TARP:

DESCRIPTION: _____

YEAR: _____ MAKE: _____ MODEL: _____

INSTALLER: _____

LOCATED AT: _____

SERVICING AGENCY: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

SERVICE PARTS IDENTIFICATION FORM

Preventative Maintenance Items:			
Private label part number identification shall not be acceptable. A common automotive industry recognizable identification capable of cross referencing with manufactures such as Fram, Hastings, Puralator, Wix, etc. shall only be accepted.			
	Required Amount	OEM Part #	After Market Part #
Engine Group:			
Primary Oil Filter			
Secondary Oil Filter			
Air Filter			
Other			
Primary Fuel Filter			
Secondary Fuel Filter			
Water/Fuel Separator			
Coolant Filter			
Other			
Ignition Group:			
Spark Plug			
Spark Plug Wires			
Other			
Other			
Emissions Group:			
PCV Valve			
Other			
Drive Train Group:			
Transmission Primary Filter			
Transmission Secondary Filter			
Axle Housing Breather			
Other			
Brake Group:			
Compressor Intake Filter			
Air Dryer Desiccant			
Power Take Off Group:			
Hydraulic Filter			
Breather Filter			
Other			
Miscellaneous:			
Left Windshield Wiper			
Right Windshield Wiper			
Rear Windshield Wiper			
Cab Ventilation Filter			

that if no exception is taken, the Vendor shall supply all material exactly as specified. Vendors may list proposed equivalent items below for consideration by the Authority, and should include the item number, item description, manufacturer's name, model number and packaging quantities of those items which the vendor proposes to substitute. Vendors may not use this form to attach conditions, limitations, or other provisos to their bid. Please be advised that any proposed equivalent or other exceptions that are deemed to be a material deviation from the specifications shall be a mandatory cause for rejection of the bid, and the vendor proceeds at its own risk.

[illegible]

Warranty Date Exception_____

Signature of Vendor Responsible Officer _____

Date_____